Index of Papers Published in 1984

Author Index

A

- Abou-Kassem, J. H. and Aziz, K.: Sensitivity of Steamflood Model Results to Grid and Timestep Sizes, (Tech. Paper SPE11080) SPEJ Feb., 84 65-74
- Ananthapadmanabh, K. P. et al.: A Thermodynamic Model of Redissolution of Calcium Sulfonate Precipitates in NaCl Solutions, (Tech. Paper SPE10598) SPEJ Dec., 84 667-676
- Ayral, S. et al.: Computer-Assisted Tomography for the Observation of Oil Displacement in Porous Media, (Tech. Paper SPE11758) SPEJ Feb., 84 53-55
- Aziz, K. and Abou-Kassem, J. H.: Sensitivity of Steamflood Model Results to Grid and Timestep Sizes, (Tech. Paper SPE11080) SPEJ Feb., 84 65-74

R

- Bacon, J.R. and Kempthorne, R.H.: Waterflood Oil Recovery in Fractured Reservoirs With Directionally Drilled Wells, (Tech. Paper SPE11024) SPEJ Aug., 84 375-381
- Bang, H.W. and Caudle, B.H.: Modeling of a Micellar/Polymer Process, (Tech. Paper SPE9009) SPEJ Dec., 84 617-627
- Bock, J. et al.: Interfacial Light Scattering Study in Microemulsions, (Tech. Paper SPE10788) SPEJ Apr., 84 203-208
- Braester, C.: Influence of Block Size on the Transition Curve for a Drawdown Test in a Naturally Fractured Reservoir, (Tech. Paper SPE10543) SPEJ Oct., 84 498-504
- Braun, R. L. et al.: Results of Mathematical Modeling of Modified In-Situ Oil Shale Retorting, (Tech. Paper SPE11000) SPEJ Feb., 84 75-86
- Brigham, W. E. et al.: Reaction Kinetics of In-Situ Combustion: Part 1 — Observations, (Tech. Paper SPE8907) SPEJ Aug., 84 399-408
- Brigham, W. E. et al.: Reaction Kinetics of In-Situ Combustion: Part 2-Modeling, (Tech. Paper SPE9454) SPEJ Aug., 84 408-

C

- Cagnol, J. L. et al.: Optimal Injection Policies for Enhanced Oil Recovery: Part 1—Theory and Computational Strategies, (Tech. Paper SPE11285) SPEJ June, 84 328-332
- Casteljns, J.H.P. and Hagoort, J.: Recovery of Retrograde Condénsate From Naturally Fractured Gas-Condensate Reservoirs, (Tech. Paper SPE11199) SPEJ Dec., 84 707-718
- Caudle, B.H. and Bang, H.W.: Modeling of a Micellar/Polymer Process, (Tech. Paper SPE9009) SPEJ Dec., 84 617-627
- Celik, M. et al.: The Role of Surfactant Precipitation and Redissolution in the Adsorption of Sulfonate on Minerals, (Tech. Paper SPE8263) SPEJ Apr., 84 233-239
- Celik, M. S. et al.: A Thermodynamic Model of Redissolution of Calcium Sulfonate Precipitates in NaCl Solutions, (Tech. Paper SPE10598) SPEJ Dec., 84 667-676

- Chan, A.F. and Gupta, S.P.: The Propagation of Oil-Moving and Solubilizing Components of Broad Equivalent-Weight Sulfonate Systems in Micellar Floods, (Tech. Paper SPE10200) SPEJ Aug., 84 435-446
- Chase, C. A. and Todd, M. R.: Numerical Simulation of CO2 Flood Performance, (Tech. Paper SPE10514) SPEJ Dec., 84 597-605
- Chatzis, I. and Morrow, N. R.: Correlation of Capillary Number Relationships for Sandstone, (Tech. Paper SPE10114) SPEJ Oct., 84 555-562
- Chauveteau, G. and Kohler, N.: Influence of Microgels in Polysaccharide Solutions on Their Flow Behavior Through Porous Media, (Tech. Paper SPE9295) SPEJ June, 84 361-368
- Chavent, G. et al.: Simulation of Two-Dimensional Waterflooding By Using Mixed Finite Elements, (Tech. Paper SPE10502) SPEJ Aug., 84 382-390
- Cheatham, J. B. and Patillo, P. D.: Helical Postbuckling Configuration of a Weightless Column Under the Action of an Axial Load, (Tech. Paper SPE10854) SPEJ Aug., 84 467-472
- Chen, C. et al.: Pressure Response at Observation Wells in Fractured Reservoirs, (Tech. Paper SPE10839) SPEJ Dec., 84 628-658
- Chen, T. and Stagg, P.W.: Semilog Analysis of the Pulse-Decay Technique of Permeability Measurement, (Tech. Paper SPE11818) SPEJ Dec., 84 639-642
- Chen, W. H. et al.: Numerical Simulation of Combustion Tube Experiments and the Associated Kinetics of In-Situ Combustion Processes, (Tech. Paper SPE11074) SPEJ Dec., 84 657-666
- Chierici, G. L.: Novel Relations for Drainage and Imbibition Relative Permeabilities, (Tech. Paper SPE10165) SPEJ June, 84 275-276
- Clark, J. A. and Teufel, L. W.: Hydraulic Fracture Propagation in Layered Rock: Experimental Studies of Fracture Containment, (Tech. Paper SPE9878) SPEJ Feb., 84 19-32
- Closmann, P.J.: Steam Zone Growth in Cylindrical Channels, (Tech. Paper SPE11873) SPEJ Oct., 84 481-483
- Coates, G. and Dumanoir, J.: Theoretical and Experimental Bases for the Dual-Water Model for Interpretation of Shaly Sands, (Tech. Paper SPE6859) SPEJ Apr., 84 153-168
- Cohen, G. et al.: Simulation of Two-Dimensional Waterflooding By Using Mixed Finite Elements, (Tech. Paper SPE10502) SPEJ Aug., 84 382-390
- Cox, D. O.: Discussion of Single-Phase Fluid Flow in a Stratified Porous Medium With Crossflow, (Discussion SPE12946) SPEJ June, 84 307
- Culham, W. E. et al.: Numerical Simulation of Combustion Tube Experiments and the Associated Kinetics of In-Situ Combustion Processes, (Tech. Paper SPE11074) SPEJ Dec., 84 657-666

D

- Dalen, V. and Risnes, R.: Equilibrium Calculations for Coexisting Liquid Phases, (Tech. Paper SPE11126) SPEJ Feb., 84 87-96
- Darlow, B. L. et al.: Mixed Finite Element Methods for Miscible Displacement Problems in Porous Media, (Tech. Paper SPE10501) SPEJ Aug., 84 391-398
- de Jong, L.N.J. et al.: Influence of Temperature and Pressure on Asphaltene Flocculation, (Tech. Paper SPE11202) SPEJ June, 84 283-293

- Deans, H. A. and Gao, C.T.: Single-Phase Fluid Flow in a Stratified Porous Medium With Crossflow, (Tech. Paper SPE11439) SPEJ Feb., 84 97-106
- Dellinger, S. et al.: CO2 Mobility Control, (Tech. Paper SPE9808) SPEJ Apr., 84 191-196
- Diaz, J. C. et al.: Results of Mathematical Modeling of Modified In-Situ Oil Shale Retorting, (Tech. Paper SPE11000) SPEJ Feb., 84 75-86
- Doscher, T.M. et al.: The Displacement of Residual Crude Oil by CO2 and Nitrogen in Gravity Stabilized Systems, (Tech. Paper SPE11678) SPEJ Dec., 84 593-596
- Dumanoir, J. and Coates, G.: Theoretical and Experimental Bases for the Dual-Water Model for Interpretation of Shaly Sands, (Tech. Paper SPE6859) SPEJ Apr., 84 153-168
- Dumore, J. M. et al.: An Analytical Model for One-Dimensional, Three-Component Condensing and Vaporizing Gas Drives, (Tech. Paper SPE10069) SPEJ Apr., 84 169-179
- Dupuy, M. et al.: Simulation of Two-Dimensional Waterflooding By Using Mixed Finite Elements, (Tech. Paper SPE10502) SPEJ Aug., 84 382-390
- Dykstra, H.: Discussion of an Analytical Extension of the Dykstra-Parsons Vertical Stratification Discrete Solution to a Continuous, Real-Time Basis, (Discussion SPE13753) SPEJ Dec., 84 656

E

- El-Arabi, M.A. et al.: The Displacement of Residual Crude Oil by CO2 and Nitrogen in Gravity Stabilized Systems, (Tech. Paper SPE11678) SPEJ Dec., 84 593-596
- Enick, R.M. et al.: An Analytical Extension of the Dykstra-Parsons Vertical Stratification Discrete Solution to a Continuous, Real-Time Basis, (Tech. Paper SPE12065) SPEJ Dec., 84 643-655
- Ewing, R. E. et al.: Mixed Finite Element Methods for Miscible Displacement Problems in Porous Media, (Tech. Paper SPE10501) SPEJ Aug., 84 391-398

F

- Fassihi, M. R. et al.: Reaction Kinetics of In-Situ Combustion: Part 1 - Observations, (Tech. Paper SPE8907) SPEJ Aug., 84 399-408
- Fassihi, M. R. et al.: Reaction Kinetics of In-Situ Combustion: Part 2-Modeling, (Tech. Paper SPE9454) SPEJ Aug., 84 408-416
- Fathi, Z. and Ramirez, W. E.: Optimal Injection Policies for Enhanced Oil Recovery: Part 2—Surfactant Flooding, (Tech. Paper SPE12814) SPEJ June, 84 333-341
- Fathi, Z. et al.: Optimal Injection Policies for Enhanced Oil Recovery: Part 1-Theory and Computational Strategies, (Tech. Paper SPE11285) SPEJ June, 84 328-332
- Fayers, F.J. and Matthews, J.D.: Evaluation of Normalized Stone's Methods for Estimating Three-Phase Relative Permeabilities, (Tech. Paper SPE11277) SPEJ Apr., 84 224-239
- Fleming, P. D. et al.: A Ternary, Two-Phase, Mathematical Model of Oil Recovery With Surfactant Systems, (Tech. Paper SPE12934) SPEJ Dec., 84 606-616
- Foley, W. L. et al.: The Effect of CO2 Injection on the Recovery of In-Situ Methane From Bituminous Coal: An Experimental Simulation, (Tech. Paper SPE10822) SPEJ Oct., 84 521-528
- Forsyth, P. and Sammon, P.: Gas Phase Appearance and Disappearance in Fully Implicit Black Oil Simulation, (Tech. Paper SPE11757) SPEJ Oct., 84 505-507

- Gao, C.T. and Deans, H. A.: Single-Phase Fluid Flow in a Stratified Porous Medium With Crossflow, (Tech. Paper SPE11439) SPEJ Feb., 84 97-106
- Gardner, J.W. and Ypma, J.G.J.: An Investigation of Phase Behavior/Macroscopic Bypassing Interaction in CO2 Flooding, (Tech. Paper SPE10686) SPEJ Oct., 84 508-520
- Gavalas, G. R. et al.: Identifiability of Estimates of Two-Phase Reservoir Properties in History Matching, (Tech. Paper SPE12579) SPEJ Dec., 84 697-706
- Glowka, D. A. and Ortega, A.: Frictional Heating and Convective Cooling of Polycrystalline Diamond Drag Tools During Rock Cutting, (Tech. Paper SPE11061) SPEJ Apr., 84 121-128
- Gonzalez, J. A. and Perkins, T. K.: Changes in Earth Stresses Around a Wellbore Caused by Radially Symmetrical Pressure and Temperature Gradients Pressure and Temperature Gradients, (Tech. Paper SPE10080) SPEJ Apr., 84 129-140
- Goyal, A. et al.: The Role of Surfactant Precipitation and Redissolution in the Adsorption of Sulfonate on Minerals, (Tech. Paper SPE8263) SPEJ Apr., 84 233-239
- Green, D. W. et al.: A New Method To Simulate the Effects of Viscous Fingering on Miscible Displacement Processes in Porous Media, (Tech. Paper SPE10970) SPEJ Feb., 84 56-64
- Gryte, C. C. et al.: Computer-Assisted Tomography for the Observation of Oil Displacement in Porous Media, (Tech. Paper SPE11758) SPEJ Feb., 84 53-55
- Gupta, S. P.: Compositional Effects on Displacement Mechanisms of the Micellar Fluid Injected in the Sloss Field Test, (Tech. Paper SPE8827) SPEJ Feb., 84 38-48
- Gupta, S.P. and Chan, A.F.: The Propagation of Oil-Moving and Solubilizing Components of Broad Equivalent-Weight Sulfonate Systems in Micellar Floods, (Tech. Paper SPE10200) SPEJ Aug., 84 435-446

H

- Hagoort, J. et al.: An Analytical Model for One-Dimensional, Three-Component Condensing and Vaporizing Gas Drives, (Tech. Paper SPE10069) SPEJ Apr., 84 169-179
- Hagoort, J. and Casteljns, J.H.P.: Recovery of Retrograde Condensate From Naturally Fractured Gas-Condensate Reservoirs, (Tech. Paper SPE11199) SPEJ Dec., 84 707-718
- Haldorsen, H.H. and Lake, L.W.: A New Approach to Shale Management in Field-Scale Simulation Models, (Tech. Paper SPE10976) SPEJ Aug., 84 447-457
- Harwell, J. H. et al.: Optimal Injection Strategies for the Propagation of Surfactant Mixtures Through Porous Media, (Tech. Paper SPE10291) SPEJ Oct., 84 545-554
- Healy, R. N. and Reed, R. L.: Contact Angles for Equilibrated Microemulsion Systems, (Tech. Paper SPE8262) SPEJ June, 84 342-350
- Hirschberg, A. et al.: Influence of Temperature and Pressure on Asphaltene Flocculation, (Tech. Paper SPE11202) SPEJ June, 84 283-293
- Holbrook, S. et al.: CO2 Mobility Control, (Tech. Paper SPE9808) SPEJ Apr., 84 191-196
- Horne, R.N. and Temeng, K.O.: Pressure Distributions in Eccentric Circular Systems, (Tech. Paper SPE11223) SPEJ Dec., 84 677-684
- Hornof, V. et al.: Visualization of a Surfactant Flood of an Oil-Saturated Porous Medium, (Tech. Paper SPE11598) SPEJ June, 84 325-327
- Huang, J. S. et al.: Interfacial Light Scattering Study in Microemulsions, (Tech. Paper SPE10788) SPEJ Apr., 84 203-208

Huang, J. S. and Kim, M. W.: Critical Scaling Behavior of Microemulsion Systems, (Tech. Paper SPE10787) SPEJ Apr., 84 197-202

I

Ito, Y.: The Introduction of the Microchanneling Phenomenon to Cyclic Steam Stimulation and Its Application to the Numerical Simulator (Sand Deformation Concept), (Tech. Paper SPE11193) SPEJ Aug., 84 417-430

J

- Jaffre, J. et al.: Simulation of Two-Dimensional Waterflooding By Using Mixed Finite Elements, (Tech. Paper SPE10502) SPEJ Aug., 84 382-390
- Jenneman, G. E. et al.: Experimental Studies of In-Situ Microbial Enhanced Oil Recovery, (Tech. Paper SPE10789) SPEJ Feb., 84 33-37
- Jensen, C.M. and Orr, F.M.: Interpretation of Pressure-Composition Phase Diagrams for CO2/Crude Oil Systems, (Tech. Paper SPE11125) SPEJ Oct., 84 485-497

K

- Kempthorne, R.H. and Bacon, J.R.: Waterflood Oil Recovery in Fractured Reservoirs With Directionally Drilled Wells, (Tech. Paper SPE11024) SPEJ Aug., 84 375-381
- Kim, M. W. et al.: Interfacial Light Scattering Study in Microemulsions, (Tech. Paper SPE10788) SPEJ Apr., 84 203-208
- Kim, M. W. and Huang, J. S.: Critical Scaling Behavior of Microemulsion Systems, (Tech. Paper SPE10787) SPEJ Apr., 84 197-202
- Knapp, R. M. et al.: Experimental Studies of In-Situ Microbial Enhanced Oil Recovery, (Tech. Paper SPE10789) SPEJ Feb., 84 33-37
- Kohler, N. and Chauveteau, G.: Influence of Microgels in Polysaccharide Solutions on Their Flow Behavior Through Porous Media, (Tech. Paper SPE9295) SPEJ June, 84 361-368
- Kohn, J.P. and Rossen, W.R.: Behavior of Microemulsions Under Compression, (Tech. Paper SPE11210) SPEJ Oct., 84 536-544
- Kuckes, A. F. et al.: An Electromagnetic Survey Method for Directionally Drilling a Relief Well Into a Blown Out Oil or Gas Well, (Tech. Paper SPE10946) SPEJ June, 84 269-274

I

- Lake, L.W. and Haldorsen, H.H.: A New Approach to Shale Management in Field-Scale Simulation Models, (Tech. Paper SPE10976) SPEJ Aug., 84 447-457
- Lautzenhiser, T. et al.: An Electromagnetic Survey Method for Directionally Drilling a Relief Well Into a Blown Out Oil or Gas Well, (Tech. Paper SPE10946) SPEJ June, 84 269-274
- Lee, S. T. et al.: Numerical Simulation of Combustion Tube Experiments and the Associated Kinetics of In-Situ Combustion Processes, (Tech. Paper SPE11074) SPEJ Dec., 84 657-666
- Lescarboura, J. A. et al.: Evaluation of Fracturing Fluid Stability by Using a Heated, Pressurized Flow Loop. (Tech. Paper SPE10962) SPEJ June, 84 249-255

- Lewis, A. E. et al.: Results of Mathematical Modeling of Modified In-Situ Oil Shale Retorting, (Tech. Paper SPE11000) SPEJ Feb., 84 75-86
- Lin, C.Y. et al.: Numerical Simulation of Combustion Tube Experiments and the Associated Kinetics of In-Situ Combustion Processes, (Tech. Paper SPE11074) SPEJ Dec., 84 657-666

M

- Maney, E. et al.: The Role of Surfactant Precipitation and Redissolution in the Adsorption of Sulfonate on Minerals, (Tech. Paper SPE8263) SPEJ Apr., 84 233-239
- Manev, E. D. et al.: A Thermodynamic Model of Redissolution of Calcium Sulfonate Precipitates in NaCl Solutions, (Tech. Paper SPE10598) SPEJ Dec., 84 667-676
- Masse', L. and Medlin, W. L.: Laboratory Experiments in Fracture Propagation, (Tech. Paper SPE10377) SPEJ June, 84 256-268
- Matthews, J.D. and Fayers, F.J.: Evaluation of Normalized Stone's Methods for Estimating Three-Phase Relative Permeabilities, (Tech. Paper SPE11277) SPEJ Apr., 84 224-239
- McInerney, M. J. et al.: Experimental Studies of In-Situ Microbial Enhanced Oil Recovery, (Tech. Paper SPE10789) SPEJ Feb., 84 33-37
- McKinley, R.M. and Streltsova, T.D.: Effect of Flow Time Duration on Buildup Pattern for Reservoirs With Heterogeneous Properties, (Tech. Paper SPE11140) SPEJ June, 84 294-306
- Medlin, W. L. and Masse', L.: Laboratory Experiments in Fracture Propagation, (Tech. Paper SPE10377) SPEJ June, 84 256-268
- Meijers, J.G. et al.: Influence of Temperature and Pressure on Asphaltene Flocculation, (Tech. Paper SPE11202) SPEJ June, 84 283-293
- Menzie, D. E. et al.: Experimental Studies of In-Situ Microbial Enhanced Oil Recovery, (Tech. Paper SPE10789) SPEJ Feb., 84 33-37
- Metcalfe, R. S. et al.: Phase Equilibria in CO2-Multicomponent Hydrocarbon Systems: Experimental Data and an Improved Prediction Technique, (Tech. Paper SPE9231) SPEJ June, 84 308-324
- Morrow, N. R. and Chatzis, I.: Correlation of Capillary Number Relationships for Sandstone, (Tech. Paper SPE10114) SPEJ Oct., 84 555-562

N

- Neale, G. et al.: Visualization of a Surfactant Flood of an Oil-Saturated Porous Medium, (Tech. Paper SPE11598) SPEJ June, 84 325-327
- Nekut, A. G. et al.: An Electromagnetic Survey Method for Directionally Drilling a Relief Well Into a Blown Out Oil or Gas Well, (Tech. Paper SPE10946) SPEJ June, 84 269-274
- Neuman, C. H.: Discussion of Steam Zone Growth in Cylindrical Channels, (Discussion SPE12954) SPEJ Oct., 84 484
- Nolte, K. G. et al.: Pipe Viscometer Study of Fracturing Fluid Rheology, (Tech. Paper SPE10258) SPEJ Oct., 84 575-581
- Novosad, J. and Novosad, Z.: The Effect of Hydrogen Ion Exchange on Alkalinity Loss in Alkaline Flooding, (Tech. Paper SPE10605) SPEJ Feb., 84 49-52
- Novosad, Z. and Novosad, J.: The Effect of Hydrogen Ion Exchange on Alkalinity Loss in Alkaline Flooding, (Tech. Paper SPE10605) SPEJ Feb., 84 49-52

0

- Orr, F.M. and Jensen, C.M.: Interpretation of Pressure-Composition Phase Diagrams for CO2/Crude Oil Systems, (Tech. Paper SPE11125) SPEJ Oct., 84 485-497
- Ortega, A. and Glowka, D. A.: Frictional Heating and Convective Cooling of Polycrystalline Diamond Drag Tools During Rock Cutting, (Tech. Paper SPE11061) SPEJ Apr., 84 121-128
- Oyekan, R. et al.: The Displacement of Residual Crude Oil by CO2 and Nitrogen in Gravity Stabilized Systems, (Tech. Paper SPE11678) SPEJ Dec., 84 593-596

P

- Panvelker, S.B. et al.: An Analytical Extension of the Dykstra-Parsons Vertical Stratification Discrete Solution to a Continuous, Real-Time Basis, (Tech. Paper SPE12065) SPEJ Dec., 84 643-655
- Paterson, L. et al.: Visualization of a Surfactant Flood of an Oil-Saturated Porous Medium, (Tech. Paper SPE11598) SPEJ June. 84 325-327
- Patillo, P. D. and Cheatham, J. B.: Helical Postbuckling Configuration of a Weightless Column Under the Action of an Axial Load, (Tech. Paper SPE10854) SPEJ Aug., 84 467-472
- Patton, J. et al.: CO2 Mobility Control, (Tech. Paper SPE9808) SPEJ Apr., 84 191-196
- Perkins, T. K. and Gonzalez, J. A.: Changes in Earth Stresses Around a Wellbore Caused by Radially Symmetrical Pressure and Temperature Gradients Pressure and Temperature Gradients, (Tech. Paper SPE10080) SPEJ Apr., 84 129-140
- Price, H.S. and Settari, A.: Simulation of Hydraulic Fracturing in Low-Permeability Reservoirs, (Tech. Paper SPE8939) SPEJ Apr., 84 141-152
- Prud'homme, R. K.: Rheology Enhancement by Molecular Association Complexes, (Tech. Paper SPE10675) SPEJ Aug., 84 431-434

D

- Radke, C. J. et al.: Linear Oil Displacement by the Emulsion Entrapment Process, (Tech. Paper SPE11333) SPEJ June, 84 351-360
- Raghavan, R. et al.: Pressure Response at Observation Wells in Fractured Reservoirs, (Tech. Paper SPE10839) SPEJ Dec., 84 628-658
- Ramey, H. J. et al.: Reaction Kinetics of In-Situ Combustion: Part 1 – Observations, (Tech. Paper SPE8907) SPEJ Aug., 84 399-408
- Ramey, H. J. et al.: Reaction Kinetics of In-Situ Combustion: Part 2-Modeling, (Tech. Paper SPE9454) SPEJ Aug., 84 408-416
- Ramirez, W. F. and Fathi, Z.: Optimal Injection Policies for Enhanced Oil Recovery: Part 2-Surfactant Flooding, (Tech. Paper SPE12814) SPEJ June, 84 333-341
- Ramirez, W. F. et al.: Optimal Injection Policies for Enhanced Oil Recovery: Part 1—Theory and Computational Strategies, (Tech. Paper SPE11285) SPEJ June, 84 328-332
- Reed, R. L. and Healy, R. N.: Contact Angles for Equilibrated Microemulsion Systems, (Tech. Paper SPE8262) SPEJ June, 84 342-350
- Revus, D. E. et al.: Experimental Studies of In-Situ Microbial Enhanced Oil Recovery, (Tech. Paper SPE10789) SPEJ Feb., 84 33-37

- Reynolds, A.C. et al.: Pressure Response at Observation Wells in Fractured Reservoirs, (Tech. Paper SPE10839) SPEJ Dec., 84 628-658
- Reznik, A. A. et al.: The Effect of CO2 Injection on the Recovery of In-Situ Methane From Bituminous Coal: An Experimental Simulation, (Tech. Paper SPE10822) SPEJ Oct., 84 521-528
- Reznik, A. A. et al.: An Analytical Extension of the Dykstra-Parsons Vertical Stratification Discrete Solution to a Continuous, Real-Time Basis, (Tech. Paper SPE12065) SPEJ Dec., 84 643-655
- Ribera, I. et al.: Simulation of Two-Dimensional Waterflooding By Using Mixed Finite Elements, (Tech. Paper SPE10502) SPEJ Aug., 84 382-390
- Risnes, R. and Dalen, V.: Equilibrium Calculations for Coexisting Liquid Phases, (Tech. Paper SPE11126) SPEJ Feb., 84 87-96
- Risseeuw, A. S. et al.: An Analytical Model for One-Dimensional, Three-Component Condensing and Vaporizing Gas Drives, (Tech. Paper SPE10069) SPEJ Apr., 84 169-179
- Robinson, R. L. et al.: Phase Equilibria in CO2-Multicomponent Hydrocarbon Systems: Experimental Data and an Improved Prediction Technique, (Tech. Paper SPE9231) SPEJ June, 84 308-324
- Rogers, R. E. et al.: Pipe Viscometer Study of Fracturing Fluid Rheology, (Tech. Paper SPE10258) SPEJ Oct., 84 575-581
- Rossen, W.R. and Kohn, J.P.: Behavior of Microemulsions Under Compression, (Tech. Paper SPE11210) SPEJ Oct., 84 536-544

S

- Sammon, P. and Forsyth, P.: Gas Phase Appearance and Disappearance in Fully Implicit Black Oil Simulation, (Tech. Paper SPE11757) SPEJ Oct., 84 505-507
- Satman, A. et al.: Application of the Time-Dependent Overall Heat-Transfer Coefficient Concept to Heat-Transfer Problems in Porous Media, (Tech. Paper SPE8909) SPEJ Feb., 84 107-112
- Schechter, R. S. et al.: Optimal Injection Strategies for the Propagation of Surfactant Mixtures Through Porous Media, (Tech. Paper SPE10291) SPEJ Oct., 84 545-554
- Schipper, B.A. et al.: Influence of Temperature and Pressure on Asphaltene Flocculation, (Tech. Paper SPE11202) SPEJ June, 84 283-293
- Schmidt, D. P. et al.: Linear Oil Displacement by the Emulsion Entrapment Process, (Tech. Paper SPE11333) SPEJ June, 84 351-360
- Scinfeld, J. H. et al.: Identifiability of Estimates of Two-Phase Reservoir Properties in History Matching, (Tech. Paper SPE12579) SPEJ Dec., 84 697-706
- Settari, A. and Price, H.S.: Simulation of Hydraulic Fracturing in Low-Permeability Reservoirs, (Tech. Paper SPE8939) SPEJ Apr., 84 141-152
- Shu, W. R.: A Viscosity Correlation for Mixtures of Heavy Oil, Bitumen, and Petroleum Fractions, (Tech. Paper SPE11280) SPEJ June, 84 277-282
- Sifferman, T. R. et al.: Evaluation of Fracturing Fluid Stability by Using a Heated, Pressurized Flow Loop, (Tech. Paper SPE10962) SPEJ June, 84 249-255
- Sigal, R. et al.: An Electromagnetic Survey Method for Directionally Drilling a Relief Well Into a Blown Out Oil or Gas Well, (Tech. Paper SPE10946) SPEJ June, 84 269-274
- Singh, P. K. et al.: The Effect of CO2 Injection on the Recovery of In-Situ Methane From Bituminous Coal: An Experimental Simulation, (Tech. Paper SPE10822) SPEJ Oct., 84 521-528
- Smith, D.M. and Williams, F.L.: Diffusional Effects in the Recovery of Methane From Coalbeds, (Tech. Paper SPE10821) SPEJ Oct., 84 529-535

- Smith, J. E. et al.: A New Method To Simulate the Effects of Viscous Fingering on Miscible Displacement Processes in Porous Media, (Tech. Paper SPE10970) SPEJ Feb., 84 56-64
- Soliman, M. Y. et al.: Application of the Time-Dependent Overall Heat-Transfer Coefficient Concept to Heat-Transfer Problems in Porous Media, (Tech. Paper SPE8909) SPEJ Feb., 84 107-112
- Somasundaran, P. et al.: A Thermodynamic Model of Redissolution of Calcium Sulfonate Precipitates in NaCl Solutions, (Tech. Paper SPE10598) SPEJ Dec., 84 667-676
- Somasundaran, P. et al.: The Role of Surfactant Precipitation and Redissolution in the Adsorption of Sulfonate on Minerals, (Tech. Paper SPE8263) SPEJ Apr., 84 233-239
- Soo, H. et al.: Linear Oil Displacement by the Emulsion Entrapment Process, (Tech. Paper SPE11333) SPEJ June, 84 351-360
- Stagg, P.W. and Chen, T.: Semilog Analysis of the Pulse-Decay Technique of Permeability Measurement, (Tech. Paper SPE11818) SPEJ Dec., 84 639-642
- Streltsova, T.D. and McKinley, R.M.: Effect of Flow Time Duration on Buildup Pattern for Reservoirs With Heterogeneous Properties, (Tech. Paper SPE11140) SPEJ June, 84 294-306

T

- Tao, T. M. and Watson, A. T.: Accuracy of JBN Estimates of Relative Permeability: Part 2-Algorithms, (Tech. Paper SPE12571) SPEJ Apr., 84 215-223
- Temeng, K.O. and Horne, R.N.: Pressure Distributions in Eccentric Circular Systems, (Tech. Paper SPE11223) SPEJ Dec., 84 677-684
- Teufel, L. W. and Clark, J. A.: Hydraulic Fracture Propagation in Layered Rock: Experimental Studies of Fracture Containment, (Tech. Paper SPE9878) SPEJ Feb., 84 19-32
- Thomas, C. P. et al.: A Ternary, Two-Phase, Mathematical Model of Oil Recovery With Surfactant Systems, (Tech. Paper SPE12934) SPEJ Dec., 84 606-616
- Tiab, D.: Real Gas Pseudopressures For CO2 Reservoirs, (Tech. Paper SPE10128) SPEJ Apr., 84 180-190
- Todd, M. R. and Chase, C. A.: Numerical Simulation of CO2 Flood Performance, (Tech. Paper SPE10514) SPEJ Dec., 84
- Tsui, T. E: Mineralogical Characterization of Uranium Ore To Evaluate In-Situ Leaching Prospects, (Tech. Paper SPE11045) SPEJ Oct., 84 563-574
- Turek, E. A. et al.: Phase Equilibria in CO2-Multicomponent Hydrocarbon Systems: Experimental Data and an Improved Prediction Technique, (Tech. Paper SPE9231) SPEJ June, 84 308-324

V

- Veatch, R. W. et al.: Pipe Viscometer Study of Fracturing Fluid Rheology, (Tech. Paper SPE10258) SPEJ Oct., 84 575-581
- Vossoughi, S. et al.: A New Method To Simulate the Effects of Viscous Fingering on Miscible Displacement Processes in Porous Media, (Tech. Paper SPE10970) SPEJ Feb., 84 56-64

W

- Wade, W. H. et al.: Optimal Injection Strategies for the Propagation of Surfactant Mixtures Through Porous Media, (Tech. Paper SPE10291) SPEJ Oct., 84 545-554
- Wahl, H. A. et al.: Evaluation of Fracturing Fluid Stability by Using a Heated, Pressurized Flow Loop, (Tech. Paper SPE10962) SPEJ June, 84 249-255
- Wang, S. Y. et al.: Computer-Assisted Tomography for the Observation of Oil Displacement in Porous Media, (Tech. Paper SPE11758) SPEJ Feb., 84 53-55
- Warren, T. M. and Winters, W. J.: The Effect of Nozzle Diameter on Jet Impact for a Tricone Bit, (Tech. Paper SPE11059) SPEJ Feb., 84 9-18
- Watson, A. T. et al.: Identifiability of Estimates of Two-Phase Reservoir Properties in History Matching, (Tech. Paper SPE12579) SPEJ Dec., 84 697-706
- Watson, A. T. and Tao, T. M.: Accuracy of JBN Estimates of Relative Permeability: Part 2-Algorithms, (Tech. Paper SPE12571) SPEJ Apr., 84 215-223
- Wheeler, M.F. et al.: Mixed Finite Element Methods for Miscible Displacement Problems in Porous Media, (Tech. Paper SPE10501) SPEJ Aug., 84 391-398
- Whitson, C. H.: Effect of C7+ Properties on Equation-of-State Predictions, (Tech. Paper SPE11200) SPEJ Dec., 84 685-696
- Willhite, G. P. et al.: A New Method To Simulate the Effects of Viscous Fingering on Miscible Displacement Processes in Porous Media, (Tech. Paper SPE10970) SPEJ Feb., 84 56-64
- Williams, E.L. and Smith, D.M.: Diffusional Effects in the Recovery of Methane From Coalbeds, (Tech. Paper SPE10821) SPEJ Oct., 84 529-535
- Winter, W. K. et al.: A Ternary, Two-Phase, Mathematical Model of Oil Recovery With Surfactant Systems, (Tech. Paper SPE12934) SPEJ Dec., 84 606-616
- Winters, W. J. and Warren, T. M.: The Effect of Nozzle Diameter on Jet Impact for a Tricone Bit, (Tech. Paper SPE11059) SPEJ Feb., 84 9-18

V

- Yarborough, L. et al.: Phase Equilibria in CO2-Multicomponent Hydrocarbon Systems: Experimental Data and an Improved Prediction Technique, (Tech. Paper SPE9231) SPEJ June, 84 308-324
- Yeh, N. et al.: Pressure Response at Observation Wells in Fractured Reservoirs, (Tech. Paper SPE10839) SPEJ Dec., 84 628-658
- Yortsos, Y. C.: Distribution of Fluid Phases Within the Steam Zone in Steam-Injection Processes, (Tech. Paper SPE11273) SPEJ Aug., 84 458-466
- Ypma, J.G.J. and Gardner, J.W.: An Investigation of Phase Behavior/Macroscopic Bypassing Interaction in CO2 Flooding, (Tech. Paper SPE10686) SPEJ Oct., 84 508-520

Z

Zolotukhin, A. B. et al.: Application of the Time-Dependent Overall Heat-Transfer Coefficient Concept to Heat-Transfer Problems in Porous Media, (Tech. Paper SPE8909) SPEJ Feb., 84 107-112

Subject Index

C

A

Accuracy

Of JBN estimates of relative permeability: algorithms, (Tech. Paper SPE 12571) SPEJ Apr. 84, 215-223

Adsorption

Of sulfonate on minerals: role of surfactant precipitation and redissolution, (Tech. Paper SPE 8263) SPEJ Apr. 84, 233-239

Alcohol Flooding

Determination of alkalinity losses resulting from hydrogen ion exchange, (Tech. Paper SPE 10605) SPEJ Feb. 84, 49-52

Algorithm

Linear regression: accuracy of JBN estimates of relative permeability, (Tech. Paper SPE 12571) SPEJ Apr. 84, 215-223

Alkane-Carbon Number

Dependence: of microemulsion systems; critical scaling behavior of, (Tech. Paper SPE 10787) SPEJ Apr. 84, 197-202

Analytical Methods

Extension of Dykstra-Parsons vertical stratification discrete solution to a continuous real time basis, (Tech. Paper SPE 12065) SPEJ Dec. 84, 643-655

Extension of Dykstra-Parsons vertical stratification discrete solution to a continuous real time basis; authors' reply to discussion of, (Rebuttal SPE 13830) SPEJ Dec. 84, 656

Extension of Dykstra-Parsons vertical stratification discrete solution to a continuous real time basis; discussion of, (Discussion SPE 13753) SPEJ Dec. 84, 656

Asphaltene

Flocculation: influence of temperature and pressure, (Tech. Paper SPE 11202) SPEJ Jun. 84, 283-293

Association Complexes

Molecular: rheology enhancement by, (Tech. Paper SPE 10675) SPEJ Aug. 84, 431-434

Axial Load

Action of: helical postbuckling configuration of a weightless column under, (Tech. Paper SPE 10854) SPEJ Aug. 84, 467-472

B

Bits

Polycrystalline drag type: frictional heating and convective cooling during rock cutting, (Tech. Paper SPE 11061) SPEJ Apr. 84, 121-128

Tricone: effect of nozzle diameter on jet impact, (Tech. Paper SPE 11059) SPEJ Feb. 84, 9-18

Blowouts

Oil or gas wells: electromagnetic survey method for directionally drilling a relief well, (Tech. Paper SPE 10946) SPEJ Jun. 84, 269-274

Boundary Conditions

Outer: constant pressure and no flow in eccentric circular systems; pressure distribution in, (Tech. Paper SPE 11223) SPEJ Dec. 84, 677-684

Calcium

Sulfonate: precipitates in NaCl solutions: thermodynamic model of redissolution, (Tech. Paper SPE 10598) SPEJ Dec. 84, 667-676

Canada

Condensate-gas reservoirs: naturally fractured; recovery of retrograde condensate, (Tech. Paper SPE 11199) SPEJ Dec. 84, 707-718

Norman Wells field: waterflood oil recovery; fractured reservoirs with directionally drilled wells, (Tech. Paper SPE 11024) SPEJ Aug. 84, 375-381

Capillary Number

Correlation relationships for sandstone, (Tech. Paper SPE 10114) SPEJ Oct. 84, 555-562

Carbon Dioxide

And nitrogen: displacement of residual crude oil in gravity stabilized systems, (Tech. Paper SPE 11678) SPEJ Dec. 84, 593-596

Crude-oil systems: interpretaion of pressure-composition phase diagrams, (Tech. Paper SPE 11125) SPEJ Oct. 84, 485-497

Flood performance: numerical simulation, (Tech. Paper SPE 10514) SPEJ Dec. 84, 597-605

Flooding: phase-behavior/macroscopic-bypassing interaction; an investigation, (Tech. Paper SPE 10686) SPEJ Oct. 84, 508-520

Injection: analysis of effect on recovery of in-situ methane from bituminous coal; experimental simulation, (Tech. Paper SPE 10822) SPEJ Oct. 84, 521-528

Mobility control, (Tech. Paper SPE 9808) SPEJ Apr. 84, 191-196

Multicomponent hydrocarbon systems: phase equilibria in; experimental data and an improved prediction technique, (Tech. Paper SPE 9231) SPEJ Jun. 84, 308-324

Reservoirs: real gas pseudopressures for, (Tech. Paper SPE 10128) SPEJ Apr. 84, 180-190

Characterization

C7+: effect on equation of state predictions, (Tech. Paper SPE 11200) SPEJ Dec. 84, 685-696

Mineralogical: of uranium ore to evaluate in-situ leaching prospects, (Tech. Paper SPE 11045) SPEJ Oct. 84, 563-574

Chemical Flooding

Propagation of surfactant mixtures through porous media: optimal injection strategies, (Tech. Paper SPE 10291) SPEJ Oct. 84, 545-554

Clays

Effect on resistivity of shaly sands: theoretical and experimental bases for the dual-water model for interpretation of, (Tech. Paper SPE 6859) SPEJ Apr. 84, 153-168

Coals

Bituminous: recovery of in-situ methane from; analysis of the effect of CO2 injection; experimental simulation, (Tech. Paper SPE 10822) SPEJ Oct. 84, 521-528

Recovery of methane from beds: diffusional effects, (Tech. Paper SPE 10821) SPEJ Oct. 84, 529-535

Coefficients

Overall heat-transfer: time dependent concept; application to heat-transfer problems in porous media, (Tech. Paper SPE 8909) SPEJ Feb. 84, 107-112

Colorado

CO2 reservoirs: real gas pseudopressures for, (Tech. Paper SPE 10128) SPEJ Apr. 84, 180-190

Columns

Weightless: under the action of an axial load; helical postbuckling configuration of, (Tech. Paper SPE 10854) SPEJ Aug. 84, 467-472

Combustion

In-situ processes: numerical simulation of combustion tube experiments and associated kinetics, (Tech. Paper SPE 11074) SPEJ Dec. 84, 657-666

Composition

Pressure phase diagrams: interpretation for CO2/crude oil systems, (Tech. Paper SPE 11125) SPEJ Oct. 84, 485-497

Compressibility

Data: use in determining behavior of microemulsions, (Tech. Paper SPE 11210) SPEJ Oct. 84, 536-544

Compression

Behavior of microemulsion under, (Tech. Paper SPE 11210) SPEJ Oct. 84, 536-544

Computers

Algorithms: accuracy of JBN estimates of relative permeability, (Tech. Paper SPE 12571) SPEJ Apr. 84, 215-223

Assisted tomography: for observation of oil displacement in porous media, (Tech. Paper SPE 11758) SPEJ Feb. 84, 53-55

Condensates

Retrograde: recovery from naturally fractured condensategas reservoirs, (Tech. Paper SPE 11199) SPEJ Dec. 84, 707-718

Conductivity

In dual-water model for interpretation of shaly sands: theoretical and experimental bases for, (Tech. Paper SPE 6859) SPEJ Apr. 84, 153-168

Configuration

Helical postbuckling: of weightless column under the action of an axial load, (Tech. Paper SPE 10854) SPEJ Aug. 84, 467-472

Contact Angle

For equilibrated microemulsion systems, (Tech. Paper SPE 8262) SPEJ Jun. 84, 342-350

Controls

Mobility: CO2, (Tech. Paper SPE 9808) SPEJ Apr. 84, 191-196

Policy: optimal injection for enhanced oil recovery; part 1 - theory and computational strategies, (Tech. Paper SPE 11285) SPEJ Jun. 84, 328-332

Policy: optimal injection for enhanced oil recovery; part 2 - surfactant flooding, (Tech. Paper SPE 12814) SPEJ Jun. 84, 333-341

Convection

Cooling: and frictional heating during rock cutting; polycrystalline diamond drag tools, (Tech. Paper SPE 11061) SPEJ Apr. 84, 121-128

Cooling

Convective: and frictional heating during rock cutting: polycrystalline diamond drag tools, (Tech. Paper SPE 11061) SPEJ Apr. 84, 121-128

Cores

From Jobo and Lynch Canyon fields: reaction kinetics of in-situ combustion; part 2 - modeling, (Tech. Paper SPE 9454) SPEJ Aug. 84, 408-416

Correlations

Between mineralogical characteristics of uranium ore and leaching performance; evaluating in-situ leaching prospects, (Tech. Paper SPE 11045) SPEJ Oct. 84, 563-574

Length: microemulsion systems; critical scaling behavior of, (Tech. Paper SPE 10787) SPEJ Apr. 84, 197-202

Of capillary number relationships for sandstone, (Tech. Paper SPE 10114) SPEJ Oct. 84, 555-562

Photon: spectroscopy; interfacial light scattering study in microemulsions, (Tech. Paper SPE 10788) SPEJ Apr. 84, 203-208

Physical properties: effect of C7+ properties on equationof-state predictions, (Tech. Paper SPE 11200) SPEJ Dec. 84, 685-696

Real gas pseudopressures: C02 reservoirs, (Tech. Paper SPE 10128) SPEJ Apr. 84, 180-190

Viscosity: for mixtures of heavy oil, bitumen, and petroleum fractions, (Tech. Paper SPE 11280) SPEJ Jun. 84, 277-282

Critical Properties

C7+: effect on equation-of-state predictions, (Tech. Paper SPE 11200) SPEJ Dec. 84, 685-696

Cross Flow

In stratified porous medium: single-phase fluid flow in; discussion of, (Discussion SPE 12946) SPEJ Jun. 84, 307

Crownpoint Area, See New Mexico

See New Mexico, (Tech. Paper SPE 11045) SPEJ Oct. 84, 563-574

Crude Oils

CO2 phase-behavior and macroscopic-bypassing interaction: an investigation, (Tech. Paper SPE 10686) SPEJ Oct. 84, 508-520

CO2 systems: interpretation of pressure-composition phase diagrams, (Tech. Paper SPE 11125) SPEJ Oct. 84, 485-497

Heavy: viscosity correlations for mixtures of bitumen and petroleum fractions, (Tech. Paper SPE 11280) SPEJ Jun. 84, 277-282

Kinetic model for oxidation of: in-situ combustion; part 1 observations, (Tech. Paper SPE 8907) SPEJ Aug. 84, 399-408

Residual: displacement by carbon dioxide and nitrogen in gravity stabilized systems, (Tech. Paper SPE 11678) SPEJ Dec. 84, 593-596

D

Deformation

Concept, sand: introduction of microchanneling phenomenon, (Tech. Paper SPE 11193) SPEJ Aug. 84, 417-430

Diamond

Polycrystalline drag tools: frictional heating and convective cooling during rock cutting, (Tech. Paper SPE 11061) SPEJ Apr. 84, 121-128

Diffusion

Effects: in recovery of methane from coalbeds, (Tech. Paper SPE 10821) SPEJ Oct. 84, 529-535

Directional Wells

Electromagnetic survey method for directionally drilling a relief well into a blown out oil or gas well, (Tech. Paper SPE 10946) SPEJ Jun. 84, 269-274

In fractured reservoirs: waterflood oil recovery in, (Tech. Paper SPE 11024) SPEJ Aug. 84, 375-381

Dispersion-Evaluations

Dispersion

In miscible displacement processes: porous media; new method to simulate effects of viscous fingering, (Tech. Paper SPE 10970) SPEJ Feb. 84, 56-64

Displacement

Linear Oil: by emulsion entrapment process, (Tech. Paper SPE 11333) SPEJ Jun. 84, 351-360

Of continuous oil: correlation of capillary number relationships for sandstone, (Tech. Paper SPE 10114) SPEJ Oct. 84, 555-562

Of residual crude oil: by carbon dioxide and nitrogen in gravity stabilized systems, (Tech. Paper SPE 11678) SPEJ Dec. 84, 593-596

Oil by water: oil-saturated porous medium; visualization of a surfactant flood, (Tech. Paper SPE 11598) SPEJ Jun. 84, 325-327

Oil in porous media: observation by computer-assisted tomography, (Tech. Paper SPE 11758) SPEJ Feb. 84, 53-55

Displacement Mechanism

Compositional effects on: micellar fluid injected; Sloss field test, (Tech. Paper SPE 8827) SPEJ Feb. 84, 38-48

Distribution

Of fluid phases: within steam zone; steam-injection processes, (Tech. Paper SPE 11273) SPEJ Aug. 84, 458-466

Of pressure: in eccentric circular systems, (Tech. Paper SPE 11223) SPEJ Dec. 84, 677-684

Drainage

Boundary: in eccentric circular systems; pressure distribution in, (Tech. Paper SPE 11223) SPEJ Dec. 84, 677-684

Gas/oil: novel relations for relative permeabilities, (Tech. Paper SPE 10165) SPEJ Jun. 84, 275-276

Drawdown Tests

Naturally fractured reservoir: influence of block size on transition curve, (Tech. Paper SPE 10543) SPEJ Oct. 84 498 504

Drilling

Directional wells: waterflood oil recovery in fractured reservoirs with, (Tech. Paper SPE 11024) SPEJ Aug. 84, 375-381

Directionally: relief well into a blown out oil or gas well; electromagnetic survey method for, (Tech. Paper SPE 10946) SPEJ Jun. 84, 269-274

Rock cutting: frictional heating and convective cooling of polycrystalline diamond drag tools, (Tech. Paper SPE 11061) SPEJ Apr. 84, 121-128

Tricone bit: effect of nozzle diameter on jet impact, (Tech. Paper SPE 11059) SPEJ Feb. 84, 9-18

Dykstra-Parsons Method

Of vertical stratification: analytical extension of discrete solution to a continuous real time basis, (Tech. Paper SPE 12065) SPEJ Dec. 84, 643-655

Of vertical stratification: analytical extension of discrete solution to a continuous real time basis; discussion of, (Discussion SPE 13753) SPEJ Dec. 84, 656 and (rebuttal SPE 13830) SPEJ Dec. 84, 656

F

Earth

Stresses: changes around a wellbore caused by radially symmetrical pressure and temperature gradients, (Tech. Paper SPE 10080) SPEJ Apr. 84, 129-140

Flasticity

Increase: polymer solutions; rheology enhancement by molecular association complexes, (Tech. Paper SPE 10675) SPEJ Aug. 84, 431-434

Electromagnetism

Survey method: for directionally drilling a relief well into a blown out oil or gas well, (Tech. Paper SPE 10946) SPEJ Jun. 84, 269-274

Emulsions

Entrapment process: linear oil displacement by, (Tech. Paper SPE 11333) SPEJ Jun. 84, 351-360

Enhanced Recovery

Alkaline flooding: determination of alkalinity losses resulting from hydrogen ion exchange, (Tech. Paper SPE 10605) SPEJ Feb. 84, 49-52

Behavior of microemulsions under compression, (Tech. Paper SPE 11210) SPEJ Oct. 84, 536-544

Correlation of capillary number relationships for sandstone, (Tech. Paper SPE 10114) SPEJ Oct. 84, 555-562

Equation-of-state predictions: effect of C7+ properties, (Tech. Paper SPE 11200) SPEJ Dec. 84, 685-696

In-situ combustion: reaction kinetics; part 2 - modeling, (Tech. Paper SPE 9454) SPEJ Aug. 84, 408-416

Linear oil displacement by emulsion entrapment process, (Tech. Paper SPE 11333) SPEJ Jun. 84, 351-360

Miscible displacement: problems in porous media; mixed finite element method usage, (Tech. Paper SPE 10501) SPEJ Aug. 84, 391-398

Miscible methods: phase equilibria in CO2 - multicomponent hydrocarbon systems; experimental data and an improved prediction technique, (Tech. Paper SPE 9231) SPEJ Jun. 84, 308-324

Oil: in-situ microbial; experimental studies, (Tech. Paper SPE 10789) SPEJ Feb. 84, 33-37

Oil: optimal injection policies for; part 1 - theory and computational strategies, (Tech. Paper SPE 11285) SPEJ Jun. 84, 328-332

Oil: optimal injection policies for; part 2 - surfactant flooding, (Tech. Paper SPE 12814) SPEJ Jun. 84, 333-341

Residual crude oil: displacement by carbon dioxide and nitrogen in gravity stabilized systems, (Tech. Paper SPE 11678) SPEJ Dec. 84, 593-596

Waterflooding: two-dimensional simulation using mixed finite elements, (Tech. Paper SPE 10502) SPEJ Aug. 84, 382-390

Equations of State

Predictions: effect of C7+ properties on, (Tech. Paper SPE 11200) SPEJ Dec. 84, 685-696

Equilibriun

Calculations: for coexisting liquid phases, (Tech. Paper SPE 11126) SPEJ Feb. 84, 87-96

Equipmen

Tricone bit: effect of nozzle diameter on jet impact, (Tech. Paper SPE 11059) SPEJ Feb. 84, 9-18

Equivalent Weight

Sulfonate systems: micellar floods; propagation of oil-moving and solubilizing components, (Tech. Paper SPE 10200) SPEJ Aug. 84, 435-446

Evaluations

Of fracturing fluid stability: use of a heated, pressurized flow loop, (Tech. Paper SPE 10962) SPEJ Jun. 84, 249-255

Of in-situ leaching prospects: mineralogical characterization of uranium ore, (Tech. Paper SPE 11045) SPEJ Oct. 84, 563-574

Three-phase relative permeability: normalized Stone's methods for estimating, (Tech. Paper SPE 11277) SPEJ Apr. 84, 224-239

Field Applications

Simulation of hydraulic fracturing: low-permeability reservoirs, (Tech. Paper SPE 8939) SPEJ Apr. 84, 141-152

Steam zone growth in cylindrical channels, (Tech. Paper SPE 11873) SPEJ Oct. 84, 481-483

Steam zone growth in cylindrical channels: discussion of, (Discussion SPE 12954) SPEJ Oct. 84, 484

Field Tests

Compositional effects on displacement mechanism: micellar fluid injected in Sloss field, Nebraska, (Tech. Paper SPE 8827) SPEJ Feb. 84, 38-48

Fingering

At CO2 displacement front: numerical simulation of flood performance, (Tech. Paper SPE 10514) SPEJ Dec. 84, 597-605

Viscous: new method to simulate the effects on miscible displacement processes in porous media, (Tech. Paper SPE 10970) SPEJ Feb. 84, 56-64

Viscous: visualization of a surfactant flood of an oil-saturated porous medium, (Tech. Paper SPE 11598) SPEJ Jun. 84, 325-327

Finite Difference Method

Use in mathematical model, ternary, two-phase: oil recovery with surfactant systems, (Tech. Paper SPE 12934) SPEJ Dec. 84, 606-616

Use in modeling a micellar-polymer process, (Tech. Paper SPE 9009) SPEJ Dec. 84, 617-627

Finite Element Method

Mixed: for miscible displacement problems in porous media, (Tech. Paper SPE 10501) SPEJ Aug. 84, 391-398

Using to simulate two-dimensional waterflooding, (Tech. Paper SPE 10502) SPEJ Aug. 84, 382-390

Fire Protection

Of pressure: in eccentric circular systems, (Tech. Paper SPE 11223) SPEJ Dec. 84, 677-684

Flocculation

Asphaltene: influence of temperature and pressure, (Tech. Paper SPE 11202) SPEJ Jun. 84, 283-293

Flood Front

Passing phenomenon: an aspect of the analytical extension of the Dykstra-Parsons vertical stratification discrete solution to a continuous real time basis, (Tech. Paper SPE 12065) SPEJ Dec. 84, 643-655

Passing phenomenon: an aspect of the analytical extension of the Dykstra-Parsons vertical stratification discrete solution to a continuous real time basis; authors' reply to discussion of, (Rebuttal SPE 13830) SPEJ Dec. 84, 656

Passing phenomenon: an aspect of the analytical extension of the Dykstra-Parsons vertical stratification discrete solution to a continuous real time basis; discussion of, (Discussion SPE 13753) SPEJ Dec. 84, 656

Flow Properties

Fracturing fluid: pipe viscometer study of rheology, (Tech. Paper SPE 10258) SPEJ Oct. 84, 575-581

Flow Stability

Of fracturing fluid: evaluation by using a heated, pressurized flow loop, (Tech. Paper SPE 10962) SPEJ Jun. 84, 249-255

Flow Time

Duration: effect on buildup pattern; reservoirs with heterogeneous properties, (Tech. Paper SPE 11140) SPEJ Jun. 84, 294-306

Fluid Flow

Relative permeabilities: novel relations for drainage and imbibition, (Tech. Paper SPE 10165) SPEJ Jun. 84, 275-276 Single-phase: linear oil displacement by emulsion entrapment process, (Tech. Paper SPE 11333) SPEJ Jun. 84, 351-360

Single-phase: stratified porous medium with crossflow, (Tech. Paper SPE 11439) SPEJ Feb. 84, 97-106

Single-phase: stratified porous medium with crossflow; discussion of, (Discussion SPE 12946) SPEJ Jun. 84, 307

Through porous media: influence of microgels in polysaccharide solutions on their flow behavior, (Tech. Paper SPE 9295) SPEJ Jun. 84, 361-368

Fluid Properties

In fracture propagation: laboratory experiments, (Tech. Paper SPE 10777) SPEJ Jun. 84, 256-268

Foams

In CO2 displacement: mobility control, (Tech. Paper SPE 9808) SPEJ Apr. 84, 191-196

Formation Fractures

Hydraulic: propagation in layered rock; experimental studies of fracture containment, (Tech. Paper SPE 9878) SPEJ Feb. 84, 19-32

Laboratory studies in propagation, (Tech. Paper SPE 10377) SPEJ Jun. 84, 256-268

Naturally fractured condensate-gas reservoirs: recovery of retrograde condensate, (Tech. Paper SPE 11199) SPEJ Dec. 84, 707-718

Naturally fractured reservoir: drawdown test; influence of block size on transition curve, (Tech. Paper SPE 10543) SPEJ Oct. 84, 498-504

Pressure response at observation wells, (Tech. Paper SPE 10839) SPEJ Dec. 84, 628-658

Waterflood oil recovery: reservoirs with directionally drilled wells, (Tech. Paper SPE 11024) SPEJ Aug. 84, 375-381

Formation Fracturing

Hydraulic: simulation in low-permeability reservoirs, (Tech. Paper SPE 8939) SPEJ Apr. 84, 141-152

Fractional Flow Equation

Oil recovery with surfactant systems: ternary, two-phase, mathematical model, (Tech. Paper SPE 12934) SPEJ Dec. 84, 606-616

Fractured Reservoirs or Fracturing

Hydraulic: propagation in layered rock; experimental studies of fracture containment, (Tech. Paper SPE 9878) SPEJ Feb. 84, 19-32

Naturally: condensate-gas; recovery of retrograde condensation, (Tech. Paper SPE 11199) SPEJ Dec. 84, 707-718

Naturally: influence of block size on transition curve for drawdown test, (Tech. Paper SPE 10543) SPEJ Oct. 84, 498-504

Pressure response at observation wells, (Tech. Paper SPE 10839) SPEJ Dec. 84, 628-658

Waterflood oil recovery in: directionally drilled wells, (Tech. Paper SPE 11024) SPEJ Aug. 84, 375-381

Fractures

Propagation of: laboratory experiments, (Tech. Paper SPE 10377) SPEJ Jun. 84, 256-268

Fracturing Fluids

Rheology: pipe viscometer study, (Tech. Paper SPE 10258) SPEJ Oct. 84, 575-581

Stability: evaluation by using a heated, pressurized flow loop, (Tech. Paper SPE 10962) SPEJ Jun. 84, 249-255

G

Gas Drive

One-dimensional, three-component condensing and vaporizing: analytical model for, (Tech. Paper SPE 10069) SPEJ Apr. 84, 169-179

Gas Injection

In one-dimensional, three-component condensing and vaporizing gas drives: analytical model for (Tech. Paper SPE 10069) SPEJ Apr. 84, 169-179

Gas Percolation

In dissolved gas-drive reservoirs: novel relations for drainage and imbibition relative permeabilities, (Tech. Paper SPE 10165) SPEJ Jun. 84, 275-276

Gas Reservoirs

And condensate: naturally fractured; recovery of retrograde condensate, (Tech. Paper SPE 11199) SPEJ Dec. 84, 707-718

Gas Wells

Blown out: electromagnetic survey method for directionally drilling a relief well, (Tech. Paper SPE 10946) SPEJ Jun. 84 269-274

Gases

Phase appearance and disappearance: fully implicit black oil simulation, (Tech. Paper SPE 11757) SPEJ Oct. 84, 505-507

Real: pseudopressures for CO2 reservoirs, (Tech. Paper SPE 10128) SPEJ Apr. 84, 180-190

Three-phase relative permeability: evaluation of normalized Stone's methods for estimating, (Tech. Paper SPE 11277) SPEJ*Apr. 84, 224-239

Gels

Rheology of: pipe viscometer study, (Tech. Paper SPE 10258) SPEJ Oct. 84, 575-581

Gravity

Stabilized systems: displacement of residual crude oil by carbon dioxide and nitrogen, (Tech. Paper SPE 11678) SPEJ Dec. 84, 593-596

Н

Heat

And pressurized flow loop: used in evaluation of fracturing fluid stability, (Tech. Paper SPE 10962) SPEJ Jun. 84, 249-255

Loss: during steam zone growth in cylindrical channel, (Tech. Paper SPE 11873) SPEJ Oct. 84, 481-483

Loss: during steam zone growth in cylindrical channels; discussion of, (Discussion SPE 12954) SPEJ Oct. 84, 484

Heat Transfer

Problems: in porous media; application of time-dependent overall heat-transfer coefficient concept, (Tech. Paper SPE 8909) SPEJ Feb. 84, 107-112

Heterogeneity

Rerservoir properties: effect of flow time duration on buildup pattern, (Tech. Paper SPE 11140) SPEJ Jun. 84, 294-306

History

Matching: identifiability of estimates of two-phase reservoir properties, (Tech. Paper SPE 12579) SPEJ Dec. 84, 697-706

Matching: modeling a micellar-polymer process, (Tech. Paper SPE 9009) SPEJ Dec. 84, 617-627

Hydrocarbons

Multicomponent and CO2 systems: phase equilibria in; experimental data and an improved prediction technique, (Tech. Paper SPE 9231) SPEJ Jun. 84, 308-324

Hydrogen

Ion exchange: determination of alkalinity losses resulting from; alkaline flooding, (Tech. Paper SPE 10605) SPEJ Feb. 84, 49-52

I

Imbibition

Water/oil: novel relations for relative permeabilities, (Tech. Paper SPE 10165) SPEJ Jun. 84, 275-276

Immiscible Displacement

Dykstra-Parsons vertical stratification: analytical extension of discrete solution to a continuous real time basis, (Tech. Paper SPE 12065) SPEJ Dec. 84, 643-655

Dykstra-Parsons vertical stratification: analytical extension of discrete solution to a continuous real time basis; authors' reply to discussion of, (Rebuttal SPE 13830) SPEJ Dec. 84, 656

Dykstra-Parsons vertical stratification: analytical extension of discrete solution to a real time basis; discussion of, (Discussion SPE 13753) SPEJ Dec. 84, 656

Oil in porous media: observation by computer-assisted tomography, (Tech. Paper SPE 11758) SPEJ Feb. 84, 53-55

Injection

CO2: analysis of effect on recovery of in-situ methane from bituminous coal; experimental simulation, (Tech. Paper SPE 10822) SPEJ Oct. 84, 521-528

Gas: in one-dimensional, three-component condensing and vaporizing gas drives; analytical model for, (Tech. Paper SPE 10069) SPEJ Apr. 84, 169-179

Optimal policies for enhanced oil recovery: part 1 - theory and computational strategies, (Tech. Paper SPE 11285) SPEJ Jun. 84, 328-332

Optimal policies for enhanced oil recovery: part 2 - surfactant flooding, (Tech. Paper SPE 12814) SPEJ Jun. 84, 333-341

Optimal strategies for propagation of surfactant mixtures: porous media, (Tech. Paper SPE 10291) SPEJ Oct. 84, 545-554

Interfacial Tension

Microemulsion-excess phase: contact angles for equilibrated microemulsion systems, (Tech. Paper SPE 8262) SPEJ Jun. 84, 342-350

Microemulsions: light scattering study, (Tech. Paper SPE 10788) SPEJ Apr. 84, 203-208

Interference

Test: pressure response at observation wells; fractured reservoirs, (Tech. Paper SPE 10839) SPEJ Dec. 84, 628-658

Interpretation

Of pressure-composition phase diagrams: CO2/crude-oil systems, (Tech. Paper SPE 11125) SPEJ Oct. 84, 485-497

Well behavior: effect of flow time duration on buildup pattern; reservoirs with heterogeneous properties, (Tech. Paper SPE 11140) SPEJ Jun. 84, 294-306

Ion Exchange

Displacement mechanisms: compositional effects; micellar fluid injected in Sloss field test, (Tech. Paper SPE 8827) SPEJ Feb. 84, 38-48

Hydrogen: determination of alkalinity losses resulting from; alkaline flooding, (Tech. Paper SPE 10605) SPEJ Feb. 84, 49-52

K

Kinetics

Associated with in-situ combustion processes: numerical simulation, (Tech. Paper SPE 11074) SPEJ Dec. 84, 657-666

Reaction: of in-situ combustion; part 1 - observations, (Tech. Paper SPE 8907) SPEJ Aug. 84, 399-408

Reaction: of in-situ combustion; part 2 - modeling, (Tech. Paper SPE 9454) SPEJ Aug. 84, 408-416

L

Laboratory Studies

Adsorption of sulfonate on minerals: role of surfactant precipitation and redissolution, (Tech. Paper SPE 8263) SPEJ Apr. 84, 233-239

Alkaline losses resulting from hydrogen ion exchange: alkaline flooding, (Tech. Paper SPE 10605) SPEJ Feb. 84, 49-52

CO2 mobility control, (Tech. Paper SPE 9808) SPEJ Apr. 84, 191-196

Combustion tube experiments and associated kinetics; insitu combustion processes, (Tech. Paper SPE 11074) SPEJ Dec. 84, 657-666

Contact angles for equilibrated microemulsion systems, (Tech. Paper SPE 8262) SPEJ Jun. 84, 342-350

Correlation of capillary number relationships for sandstone, (Tech. Paper SPE 10114) SPEJ Oct. 84, 555-562

Emulsion entrapment process: linear oil displacement by, (Tech. Paper SPE 11333) SPEJ Jun. 84, 351-360

Evaluation of fracturing fluid stability: using a heated, pressurized flow loop, (Tech. Paper SPE 10962) SPEJ Jun. 84, 249-255

Fracture propagation experiments, (Tech. Paper SPE 10377) SPEJ Jun. 84, 256-268

Fracturing fluid rheology: use of pipe viscometer, (Tech. Paper SPE 10258) SPEJ Oct. 84, 575-581

Interfacial light scattering in microemulsions, (Tech. Paper SPE 10788) SPEJ Apr. 84, 203-208

Measurement of hydraulic parameters: effect of nozzle diameter on jet impact; tricone bit, (Tech. Paper SPE 11059) SPEJ Feb. 84, 9-18

Micellar floods: propagation of oil-moving and solubilizing components of broad equivalent-weight sulfonate systems, (Tech. Paper SPE 10200) SPEJ Aug. 84, 435-446

Microemulsion systems: critical scaling behavior, (Tech. Paper SPE 10787) SPEJ Apr. 84, 197-202

Microemulsions under compression: phase behavior, (Tech. Paper SPE 11210) SPEJ Oct. 84, 536-544

Mineralogical characterization of uranium ore: evaluating in-situ leaching prospects, (Tech. Paper SPE 11045) SPEJ Oct. 84, 563-574

Of fracture containment: hydraulic fracture propagation in layered rock, (Tech. Paper SPE 9878) SPEJ Feb. 84, 19-32

Of in-situ microbial enhanced oil recovery, (Tech. Paper SPE 10789) SPEJ Feb. 84, 33-37

Oil displacement in porous media: computer-assisted tomography for observation of, (Tech. Paper SPE 11758) SPEJ Feb. 84, 53-55

Permeability measurement: semilog analysis of pulse-decay technique, (Tech. Paper SPE 11818) SPEJ Dec. 84, 639-642

Phase equilibria in CO2 - Multicomponent hydrocarbon systems: experimental data and an improved prediction technique, (Tech. Paper SPE 9231) SPEJ Jun. 84, 308-324

Phase-behavior/macroscopic-bypassing interaction: CO2 flooding; an investigation, (Tech. Paper SPE 10686) SPEJ Oct. 84, 508-520

Reaction kinetics of in-situ combustion: part 1 - observations, (Tech. Paper SPE 8907) SPEJ Aug. 84, 399-408

Reaction kinetics of in-situ combustion: part 2 - modeling, (Tech. Paper SPE 9454) SPEJ Aug. 84, 408-416

Rheology enhancement: by molecular association complexes, (Tech. Paper SPE 10675) SPEJ Aug. 84, 431-434

Simulation of CO2 injection: analysis of effect on recovery of in-situ methane from bituminous coal, (Tech. Paper SPE 10822) SPEJ Oct. 84, 521-528

Visualization of a surfactant flood: oil-saturated porous medium, (Tech. Paper SPE 11598) SPEJ Jun. 84, 325-327

Leaching

Evaluating in-situ prospects: mineralogical characterization of uranium ore, (Tech. Paper SPE 11045) SPEJ Oct. 84, 563-574

Liquids

Coexisting liquid phases: equilibrium calculations for, (Tech. Paper SPE 11126) SPEJ Feb. 84, 87-96

Log Interpretation

Shaly sands: theoretical and experimental bases for dualwater model, (Tech: Paper SPE 6859) SPEJ Apr. 84, 153-168

M

Management

Shale: field-scale models; new approach, (Tech. Paper SPE 10976) SPEJ Aug. 84, 447-457

Measuremen

Of permeability: semilog analysis of pulse-decay technique, (Tech. Paper SPE 11818) SPEJ Dec. 84, 639-642

Methan

In-Situ: recovery from bituminous coal: analysis of effect of CO2 injection; experimental simulation, (Tech. Paper SPE 10822) SPEJ Oct. 84, 521-528

Recovery from coalbeds: diffusional effects, (Tech. Paper SPE 10821) SPEJ Oct. 84, 529-535

Method of Characteristics

Solution of flow equations: analytical model for onedimensional, three-component condensing and vaporizing gas drives, (Tech. Paper SPE 10069) SPEJ Apr. 84, 169-179

Micellar Systems

Adsorption of sulfonate on minerals: role of surfactant precipitation and redissolution, (Tech. Paper SPE 8263) SPEJ Apr. 84, 233-239

Broad equivalent-weight sulfonates in floods: propagation of oil-moving and solubilizing components, (Tech. Paper SPE 10200) SPEJ Aug. 84, 435-446

Calcium sulfonate precipitates in NaCl solutions: thermodynamic model of redissolution, (Tech. Paper SPE 10598) SPEJ Dec. 84, 667-676

Fluid injected: compositional effects on displacement mechanisms; Sloss field test, (Tech. Paper SPE 8827) SPEJ Feb. 84, 38-48

Polymer process: modeling of, (Tech. Paper SPE 9009) SPEJ Dec. 84, 617-627

Microemulsions

Behavior under compression, (Tech. Paper SPE 11210) SPEJ Oct. 84, 536-544

Equilibrated systems: contact angles for, (Tech. Paper SPE 8262) SPEJ Jun. 84, 342-350

Interfacial light scattering study, (Tech. Paper SPE 10788) SPEJ Apr. 84, 203-208

Systems: critical scaling behavior of, (Tech. Paper SPE 10787) SPEJ Apr. 84, 197-202

Microgels

Influence of: on polysaccharide solutions in their flow behavior through porous media, (Tech. Paper SPE 9295) SPEJ Jun. 84, 361-368

Microorganisms-Nuclear Magnetism Logging

Microorganisms

In in-situ microbial enhanced oil recovery: experimental studies, (Tech. Paper SPE 10789) SPEJ Feb. 84, 33-37

Minerals

Adsorption of sulfonate on; role of surfactant precipitation and redissolution, (Tech. Paper SPE 8263) SPEJ Apr. 84, 233-239

Miscible Displacement

Asphaltene flocculation: influence of temperature and pressure, (Tech. Paper SPE 11202) SPEJ Jun. 84, 283-293

CO2 flood: numerical simulation of performance, (Tech. Paper SPE 10514) SPEJ Dec. 84, 597-605

CO2 flooding: investigation of phase-behavior/macroscopicbypassing interaction, (Tech. Paper SPE 10686) SPEJ Oct. 84, 508-520

Gas flooding: equilibrium calculations for coexisting liquid phases, (Tech. Paper SPE 11126) SPEJ Feb. 84, 87-96

Phase equilibria in CO2 - multicomponent hydrocarbon systems: experimental data and an improved prediction technique, (Tech. Paper SPE 9231) SPEJ Jun. 84, 308-324

Problems: porous media; simulation with mixed finite element method, (Tech. Paper SPE 10501) SPEJ Aug. 84, 391-398

Processes in porous media: new method to simulate effects of viscous fingering, (Tech. Paper SPE 10970) SPEJ Feb. 84, 56-64

Mixtures

Of heavy oil, bitumen, and petroleum fractions: viscosity correlation for, (Tech. Paper SPE 11280) SPEJ Jun. 84, 277-282

Surfactant: optimal injection strategies for propagation through porous media, (Tech. Paper SPE 10291) SPEJ Oct. 84, 545-554

Mobility

Control: CO2, (Tech. Paper SPE 9808) SPEJ Apr. 84, 191-196

Models

Analytical: for one-dimensional, three-component condensing and vaporizing gas drives, (Tech. Paper SPE 10069) SPEJ Apr. 84, 169-179

Dual-water: for interpretation of shaly sands; theoretical and experimental bases, (Tech. Paper SPE 6859) SPEJ Apr. 84, 153-168

Field-scale: new approach to shale management, (Tech. Paper SPE 10976) SPEJ Aug. 84, 447-457

Kinetic: reactions in in-situ combustion: part 2 - modeling, (Tech. Paper SPE 9454) SPEJ Aug. 84, 408-416

Kinetic: reactions in in-situ combustion; part 1 observations, (Tech. Paper SPE 8907) SPEJ Aug. 84, 399-408

Linear, horizontal, incompressible, one-dimensional reservoir: identifiability of estimates of two-phase reservoir properties in history matching, (Tech. Paper SPE 12579) SPEJ Dec. 84, 697-706

Mathematical: for propagation of surfactant mixtures through porous media; optimal injection strategies, (Tech. Paper SPE 10291) SPEJ Oct. 84, 545-554

Mathematical: fractured reservoirs; pressure response at observation wells, (Tech. Paper SPE 10839) SPEJ Dec. 84, 628-658

Mathematical: micellar-polymer process, (Tech. Paper SPE 9009) SPEJ Dec. 84, 617-627

Mathematical: results of modified in-situ oil shale retorting, (Tech. Paper SPE 11000) SPEJ Feb. 84, 75-86

Mathematical: steam zone growth in cylindrical channels, (Tech. Paper SPE 11873) SPEJ Oct. 84, 481-483 Mathematical: steam zone growth in cylindrical channels; discussion of, (Discussion SPE 12954) SPEJ Oct. 84, 484

Microemulsion systems: critical scaling behavior, (Tech. Paper SPE 10787) SPEJ Apr. 84, 197-202

Numerical thermal simulator: sand deformation concept; introduction of microchanneling phenomenon, (Tech. Paper SPE 11193) SPEJ Aug. 84, 417-430

Numerical-analytical: frictional heating and convective cooling; polycrystalline diamond drag tools during rock cutting, (Tech. Paper SPE 11061) SPEJ Apr. 84, 121-128

Numerical: transition curve for drawdown test; influence of block size on; naturally fractured reservoir, (Tech. Paper SPE 10543) SPEJ Oct. 84, 498-504

Of fracture mechanics: simulation of hydraulic fracturing; low-permeability reservoirs, (Tech. Paper SPE 8939) SPEJ Apr. 84, 141-152

Pore diffusion; recovery of methane from coalbeds; diffusional effects, (Tech. Paper SPE 10821) SPEJ Oct. 84, 529-535

Scaled: displacement of residual crude oil by carbon dioxide and nitrogen in gravity stabilized systems, (Tech. Paper SPE 11678) SPEJ Dec. 84, 593-596

Steamflood: sensitivity of results to grid and timestep sizes, (Tech. Paper SPE 11080) SPEJ Feb. 84, 65-74

Stratified porous medium with crossflow: single-phase fluid flow in, (Tech. Paper SPE 11439) SPEJ Feb. 84, 97-106

Stratified porous medium with crossflow: single-phase fluid flow in; discussion of, (Discussion SPE 12946) SPEJ Jun. 84, 307

Ternary, two-phase, mathematical: oil recovery with surfactant systems, (Tech. Paper SPE 12934) SPEJ Dec. 84, 606-616

Thermodynamic liquid: used to describe the influence of temperature and pressure on asphaltene flocculation, (Tech. Paper SPE 11202) SPEJ Jun. 84, 283-293

Thermodynamic: of redissolution of calcium sulfonate precipitates in NaCl solutions, (Tech. Paper SPE 10598) SPEJ Dec. 84, 667-676

N

Nebraska

Sloss field: compositional effects on displacement mechanisms; micellar fluid injected in field test, (Tech. Paper SPE 8827) SPEJ Feb. 84, 38-48

New Mexico

CO2 reservoirs: real gas pseudopressures for, (Tech. Paper SPE 10128) SPEJ Apr. 84, 180-190

Crownpoint area: evaluating in-situ leaching prospects; mineralogical characterization of uranium ore, (Tech. Paper SPE 11045) SPEJ Oct. 84, 563-574

Nitroger

And carbon dioxide: displacement of residual crude oil in gravity stabilized systems, (Tech. Paper SPE 11678) SPEJ Dec. 84, 593-596

Norman Wells Field, See Canada

See Canada, (Tech. Paper SPE 11024) SPEJ Aug. 84, 375-381

Nozzle Size

Effect of diameter on jet impact: tricone bit, (Tech. Paper SPE 11059) SPEJ Feb. 84, 9-18

Nuclear Magnetism Logging

In condensate-gas reservoirs: naturally fractured; recovery of retrograde condensate, (Tech. Paper SPE 11199) SPEJ Dec. 84, 707-718

Numerical Solutions

- Changes in earth stresses around a wellbore: caused by radially symmetrical pressure and temperature gradients, (Tech. Paper SPE 10080) SPEJ Apr. 84, 129-140
- Cyclic steam stimulation: sand deformation concept; introduction of microchannelling phenomenon, (Tech. Paper SPE 11193) SPEJ Aug. 84, 417-430
- Distribution of fluid phases within the steam zone: steaminjection processes, (Tech. Paper SPE 11273) SPEJ Aug. 84, 458-466
- Dykstra-Parsons vertical stratification: analytical extension of a discrete solution to a continuous real time basis, (Tech. Paper SPE 12065) SPEJ Dec. 84, 643-655
- Dykstra-Parsons vertical stratification: analytical extension of discrete solution to a continuous real time basis; authors' reply to discussion of, (Rebuttal SPE 13830) SPEJ Dec. 84, 656
- Dykstra-Parsons vertical stratification: analytical extension of discrete solution to a continuous real time basis; discussion of, (Discussion SPE 13753) SPEJ Dec. 84, 656
- Effect of nozzle diameter on jet impact: tricone bit, (Tech. Paper SPE 11059) SPEJ Feb. 84, 9-18
- Effects of viscous fingering: miscible displacement processes in porous media: new method to simulate, (Tech. Paper SPE 10970) SPEJ Feb. 84, 56-64
- Equilibrium calculations for coexisting liquid phases, (Tech. Paper SPE 11126) SPEJ Feb. 84, 87-96
- Field-scale models: new approach to shale management, (Tech. Paper SPE 10976) SPEJ Aug. 84, 447-457
- Flow time duration: effect on buildup pattern; reservoirs with heterogeneous properties, (Tech. Paper SPE 11140) SPEJ Jun. 84, 294-306
- Frictional heating and convective cooling: polycrystalline diamond drag tools during rock cutting, (Tech. Paper SPE 11061) SPEJ Apr. 84, 121-128
- Heat transfer problems in porous media: application of timedependent overall heat-transfer coefficient concept, (Tech. Paper SPE 8909) SPEJ Feb. 84, 107-112
- Helical postbuckling configuration: weightless column under the action of an axial load, (Tech. Paper SPE 10854) SPEJ Aug. 84, 467-472
- Hydraulic fracture propagation in layered rock, (Tech. Paper SPE 9878) SPEJ Feb. 84, 19-32
- Influence of block size on transition curve: drawdown test; naturally fractured reservoir, (Tech. Paper SPE 10543) SPEJ Oct. 84, 498-504
- Interpretation of shaly sands: theoretical and experimental bases for the dual-water model, (Tech. Paper SPE 6859) SPEJ Apr. 84, 153-168
- Miscible displacement: problems in porous media; mixed finite element method usage, (Tech. Paper SPE 10501) SPEJ Aug. 84, 391-398
- Modeling of a micellar-polymer process, (Tech. Paper SPE 9009) SPEJ Dec. 84, 617-627
- Novel relations for drainage and imbibition relative permeabilities, (Tech. Paper SPE 10165) SPEJ Jun. 84, 275-276
- Of hydraulic fracturing: low-permeability reservoirs, (Tech. Paper SPE 8939) SPEJ Apr. 84, 141-152
- Oil recovery with surfactant systems: ternary, two-phase, mathematical model, (Tech. Paper SPE 12934) SPEJ Dec. 84, 606-616
- One-dimensional, three-component condensing and vaporizing gas drives: analytical model for, (Tech. Paper SPE 10069) SPEJ Apr. 84, 169-179
- Optimal injection policies for enhanced oil recovery: part 1 theory and computational strategies, (Tech. Paper SPE 11285) SPEJ Jun. 84, 328-332

- Optimal injection policies for enhanced oil recovery: part 2 surfactant flooding, (Tech. Paper SPE 12814) SPEJ Jun. 84, 333-341
- Permeability measurement: semilog analysis of pulse-decay technique, (Tech. Paper SPE 11818) SPEJ Dec. 84, 639-642
- Pressure response at observation wells: fractured reservoirs, (Tech. Paper SPE 10839) SPEJ Dec. 84, 628-658
- Propagation of surfactant mixtures through porous media: optimal injection strategies, (Tech. Paper SPE 10291) SPEJ Oct. 84, 545-554
- Real gas pseudopressures: CO2 reservoirs, (Tech. Paper SPE 10128) SPEJ Apr. 84, 180-190
- Recovery of methane from coalbeds: diffusional effects, (Tech. Paper SPE 10821) SPEJ Oct. 84, 529-535
- Relative permeability: accuracy of JBN estimates; algorithms, (Tech. Paper SPE 12571) SPEJ Apr. 84, 215-223
- Simulation of CO2 flood performance, (Tech. Paper SPE 10514) SPEJ Dec. 84, 597-605
- Simulation of combustion tube experiments and associated kinetics: in-situ combustion processes, (Tech. Paper SPE 11074) SPEJ Dec. 84, 657-666
- Single-phase fluid flow: stratified porous medium with crossflow, (Tech. Paper SPE 11439) SPEJ Feb. 84, 97-
- Single-phase fluid flow: stratified porous medium with crossflow; discussion of, (Discussion SPE 12946) SPEJ Jun. 84, 307
- Steam zone growth in cylindrical channels, (Tech. Paper SPE 11873) SPEJ Oct. 84, 481-483
- Steam zone growth in cylindrical channels: discussion of, (Discussion SPE 12954) SPEJ Oct. 84, 484
- Three-phase relative permeability: normalized Stone's methods for estimating, (Tech. Paper SPE 11277) SPEJ Apr. 84, 224-239
- Two-dimensional waterflooding: simulation using mixed finite elements, (Tech. Paper SPE 10502) SPEJ Aug. 84, 382-390
- Viscosity correlation: for mixtures of heavy oil, bitumen, and petroleum fractions, (Tech. Paper SPE 11280) SPEJ Jun. 84, 277-282

0

Oil

- Black: fully implicit; gas phase appearance and disappearance, (Tech. Paper SPE 11757) SPEJ Oct. 84, 505-507
- Displacement in porous media: observation by computerassisted tomography, (Tech. Paper SPE 11758) SPEJ Feb. 84, 53-55
- Linear displacement by emulsion entrapment process, (Tech. Paper SPE 11333) SPEJ Jun. 84, 351-360
- Moving: and solubilizing components; propagation of; broad equivalent-weight sulfonate systems in micellar floods, (Tech. Paper SPE 10200) SPEJ Aug. 84, 435-446

Oil Recovery

- Alkaline flooding: determination of alkalinity losses resulting from hydrogen ion exchange, (Tech. Paper SPE 10605) SPEJ Feb. 84, 49-52
- Enhanced: in-situ microbial; experimental studies, (Tech. Paper SPE 10789) SPEJ Feb. 84, 33-37
- Enhanced: optimal injection for enhanced oil recovery; part 2 - surfactant flooding, (Tech. Paper SPE 12814) SPEJ Jun. 84, 333-341

Oil Reservoirs-Porous Media

Enhanced: optimal injection policies for; part 1 - theory and computational strategies, (Tech. Paper SPE 11285) SPEJ Jun. 84, 328-332

Gas miscible flooding: equilibrium calculations for coexisting liquid phases, (Tech. Paper SPE 11126) SPEJ Feb. 84, 87-96

Viscosity reduction: correlation for mixtures of heavy oil, bitumen, and petroleum fractions, (Tech. Paper SPE 11280) SPEJ Jun. 84, 277-282

Waterflood: fractured reservoirs with directionally drilled wells, (Tech. Paper SPE 11024) SPEJ Aug. 84, 375-381

With surfactant systems: ternary, two-phase, mathematical model, (Tech. Paper SPE 12934) SPEJ Dec. 84, 606-616

Oil Reservoirs

Steamflood model: sensitivity of results to grid and timestep sizes, (Tech. Paper SPE 11080) SPEJ Feb. 84, 65-74

Oil Shales

Modified in-situ retorting: results of mathematical modeling, (Tech. Paper SPE 11000) SPEJ Feb. 84, 75-86

Oil Wells

Blown out: electromagnetic survey method for directionally drilling a relief well, (Tech. Paper SPE 10946) SPEJ Jun. 84, 269-274

Optimization

Of injection policies for enhanced oil recovery: part 1theory and computational strategies, (Tech. Paper SPE 11285) SPEJ Jun. 84, 328-332

Of injection policies for enhanced oil recovery: part 2 surfactant flooding, (Tech. Paper SPE 12814) SPEJ Jun. 84, 333-341

Of nozzle diameter: effect on jet impact; tricone bit, (Tech. Paper SPE 11059) SPEJ Feb. 84, 9-18

P

Parameters

In modified in-situ oil shale retorting: results of mathematical modeling, (Tech. Paper SPE 11000) SPEJ Feb. 84, 75-86

Performance Predictions

CO2 flood: numerical simulation; San Andres reservoir, (Tech. Paper SPE 10514) SPEJ Dec. 84, 597-605

Permeability

Absolute and relative: identifiability of estimates in history matching; two-phase reservoir, (Tech. Paper SPE 12579) SPEJ Dec. 84, 697-706

Low: simulation of hydraulic fracturing reservoirs, (Tech. Paper SPE 8939) SPEJ Apr. 84, 141-152

Measurement: semilog analysis of pulse-decay technique, (Tech. Paper SPE 11818) SPEJ Dec. 84, 639-642

Stratified: porous medium with crossflow; single-phase fluid flow in, (Tech. Paper SPE 11439) SPEJ Feb. 84, 97-106

Stratified: porous medium with crossflow; single-phase fluid flow in; discussion in, (Discussion SPE 12946) SPEJ Jun. 84, 307

Variations: in in-situ microbial enhanced oil recovery; experimental oil recovery, (Tech. Paper SPE 10789) SPEJ Feb. 84, 33-37

Petroleum

Fractions: effect of C7+ properties on equation-of-state prediction, (Tech. Paper SPE 11200) SPEJ Dec. 84, 685-696

Fractions: viscosity correlations for mixtures of heavy oil and bitumen, (Tech. Paper SPE 11280) SPEJ Jun. 84, 277-282

Petrophysics

Dual-water model for interpretation of shaly sands: theoretical and experimental bases for, (Tech. Paper SPE 6859) SPEJ Apr. 84, 153-168

Phase Behavior

CO2/crude oil systems: interpretation of pressurecomposition diagrams, (Tech. Paper SPE 11125) SPEJ Oct. 84, 485-497

Coexisting liquid phases: equilibrium calculations for, (Tech. Paper SPE 11126) SPEJ Feb. 84, 87-96

Equilibria in CO2-multicomponent hydrocarbon systems: experimental data and an improved prediction technique, (Tech. Paper SPE 9231) SPEJ Jun. 84, 308-324

Fluid distribution within steam zone: steam-injection processes, (Tech. Paper SPE 11273) SPEJ Aug. 84, 458-466

Gas phase appearance and disappearance: fully implicit black oil simulation, (Tech. Paper SPE 11757) SPEJ Oct. 84, 505-507

Macroscopic-bypassing interaction: CO2 flooding; an investigation, (Tech. Paper SPE 10686) SPEJ Oct. 84, 508-520

Of microemulsion under compression, (Tech. Paper SPE 11210) SPEJ Oct. 84, 536-544

Oil recovery with surfactant systems: ternary, two-phase, mathematical model, (Tech. Paper SPE 12934) SPEJ Dec. 84, 606-616

Studies: micellar floods; propagation of oil-moving and solubilizing components of broad equivalent-weight sulfonate systems, (Tech. Paper SPE 10200) SPEJ Aug. 84, 435-446

Pipe

Viscometer: study of fracturing fluid rheology, (Tech. Paper SPE 10258) SPEJ Oct. 84, 575-581

Plugging

Selective: experimental studies of in-situ microbial enhanced oil recovery, (Tech. Paper SPE 10789) SPEJ Feb. 84, 33-37

Polymers

Flooding: in porous media; new method to simulate effects of porous media, (Tech. Paper SPE 10970) SPEJ Feb. 84, 56-64

Micellar process: modeling of, (Tech. Paper SPE 9009) SPEJ Dec. 84, 617-627

Molecular association complexes with solutes: rheology enhancement, (Tech. Paper SPE 10675) SPEJ Aug. 84, 431-434

Polysaccharide

Solutions: influence in polysaccharide solutions on their flow behavior through porous media, (Tech. Paper SPE 9295) SPEJ Jun. 84, 361-368

Porosit

Identifiability of estimates in history matching; two-phase reservoir, (Tech. Paper SPE 12579) SPEJ Dec. 84, 697-706

Porous Media

Flow behavior of polysaccharide solutions through: influence of microgels, (Tech. Paper SPE 9295) SPEJ Jun. 84, 361-368

Heat transfer problems in: application of time-dependent overall heat-transfer coefficient concept, (Tech. Paper SPE 8909) SPEJ Feb. 84, 107-112

Miscible displacement problems: mixed finite element method usage, (Tech. Paper SPE 10501) SPEJ Aug. 84, 391-398

Miscible displacement processes in: new method to simulate effects of viscous fingering, (Tech. Paper SPE 10970) SPEJ Feb. 84, 56-64

- Oil displacement in: computer-assisted tomography for observation of, (Tech. Paper SPE 11758) SPEJ Feb. 84, 53-55
- Oil-saturated: visualization of a surfactant flood of, (Tech. Paper SPE 11598) SPEJ Jun. 84, 325-327
- Propagation of surfactant mixtures through: optimal injection strategies, (Tech. Paper SPE 10291) SPEJ Oct. 84, 545-554
- Reaction kinetics of in-situ combustion; part 1 observations, (Tech. Paper SPE 8907) SPEJ Aug. 84, 399-408
- Reaction kinetics of in-situ combustion; part 2 modeling, (Tech. Paper SPE 9454) SPEJ Aug. 84, 408-416
- Stratified: with crossflow; single-phase fluid flow in, (Tech. Paper SPE 11439) SPEJ Feb. 84, 97-106
- Stratified: with crossflow; single-phase fluid flow in; discussion of, (Discussion SPE 12946) SPEJ Jun. 84, 307

Pressure Behavior

- And temperature: influence on asphaltene flocculation, (Tech. Paper SPE 11202) SPEJ Jun. 84, 283-293
- Decay record: semilog analysis of pulse-decay technique of permeability measurement, (Tech. Paper SPE 11818) SPEJ Dec. 84, 639-642
- Equation: simulation of two-dimensional waterflooding; use of mixed finite elements, (Tech. Paper SPE 10502) SPEJ Aug. 84, 382-390
- Interpretation of pressure-composition phase diagrams: CO2/crude oil systems, (Tech. Paper SPE 11125) SPEJ Oct. 84, 485-497
- Real gas: pseudopressures for CO2 reservoirs, (Tech. Paper SPE 10128) SPEJ Apr. 84, 180-190
- Response at observation wells: fractured reservoirs, (Tech. Paper SPE 10839) SPEJ Dec. 84, 628-658

Pressure Buildup

Reservoirs with heterogeneous properties: effect of flow time duration on buildup pattern, (Tech. Paper SPE 11140) SPEJ Jun. 84, 294-306

Pressure Distribution

In eccentric circular systems, (Tech. Paper SPE 11223) SPEJ Dec. 84, 677-684

Pressure Gradients

Radially symmetrical: cause of changes in earth stresses around a wellbore, (Tech. Paper SPE 10080) SPEJ Apr. 84, 129-140

Pressure Transients

- Tests: in stratified porous medium with crossflow: singlephase fluid flow in, (Tech. Paper SPE 11439) SPEJ Feb. 84. 97-106
- Tests: in stratified porous medium with crossflow; singlephase fluid flow in, discussion of, (Discussion SPE 12946) SPEJ Jun. 84, 307

Propagation

- Fracture: laboratory experiments in, (Tech. Paper SPE 10377) SPEJ Jun. 84, 256-268
- Of hydraulic fracture in layered rock: experimental studies of fracture containment, (Tech. Paper SPE 9878) SPEJ Feb. 84, 19-32
- Of oil-moving and solubilizing components: broad equivalent-weight sulfonate systems; micellar floods, (Tech. Paper SPE 10200) SPEJ Aug. 84, 435-446
- Of surfactant mixtures through porous media: optimal injection strategies, (Tech. Paper SPE 10291) SPEJ Oct. 84, 545-554

Properties

- C7+: effect on equation of state predictions, (Tech. Paper SPE 11200) SPEJ Dec. 84, 685-696
- Inlet gas: in modified in-situ oil shale retorting; results of mathematical modeling, (Tech. Paper SPE 11000) SPEJ Feb. 84, 75-86

Reservoir: two-phase; identifiability of estimates in history matching, (Tech. Paper SPE 12579) SPEJ Dec. 84, 697-

Pseudogas Method

For handling gas phase appearance and disappearance: fully implicit black oil simulation, (Tech. Paper SPE 11757) SPEJ Oct. 84, 505-507

Pulsed-Decay Technique

Semilog analysis of: permeability measurement, (Tech. Paper SPE 11818) SPEJ Dec. 84, 639-642

R

Real Time Basis

- Continuous: analytical extension of Dykstra-Parsons vertical stratification discrete solution to a continuous real time basis, (Tech. Paper SPE 12065) SPEJ Dec. 84, 643-655
- Continuous: analytical extension of Dykstra-Parsons vertical stratification discrete solution to a continuous real time basis; authors' reply to discussion of, (Rebuttal SPE 13830) SPEJ Dec. 84, 656
- Continuous: analytical extension of Dykstra-Parsons vertical stratification discrete solution to a continuous real time basis; discussion of, (Discussion SPE 13753) SPEJ Dec. 84 656

Recovery Methods

- Of in-situ methane from bituminous coal; analysis of effect of CO2 injection; experimental simulation, (Tech. Paper SPE 10822) SPEJ Oct. 84, 521-528
- Of methane from coalbeds: diffusional effects, (Tech. Paper SPE 10821) SPEJ Oct. 84, 529-535

Regression Analysis

Linear: accuracy of JBN estimates of relative permeability: algorithms, (Tech. Paper SPE 12571) SPEJ Apr. 84, 215-223

Relative Permeability

- Accuracy of JBN estimates: algorithms, (Tech. Paper SPE 12571) SPEJ Apr. 84, 215-223
- Novel relations for drainage and imbibition, (Tech. Paper SPE 10165) SPEJ Jun. 84, 275-276
- Three-phase relative permeability: normalized Stone's methods of estimating, (Tech. Paper SPE 11277) SPEJ Apr. 84, 224-239

Reservoir Simulation

- Of hydraulic fracturing: low-permeability reservoirs, (Tech. Paper SPE 8939) SPEJ Apr. 84, 141-152
- Steamflood: sensitivity of model results to grid and timestep sizes, (Tech. Paper SPE 11080) SPEJ Feb. 84, 65-74

Deservoir

- CO2: real gas pseudopressures for, (Tech. Paper SPE 10128) SPEJ Apr. 84, 180-190
- Condensate-gas: naturally fractured; recovery of retrograde condensate, (Tech. Paper SPE 11199) SPEJ Dec. 84, 707-718
- Fractured: pressure response at observation wells, (Tech. Paper SPE 10839) SPEJ Dec. 84, 628-658
- Low-permeability: simulation of hydraulic fracturing in, (Tech. Paper SPE 8939) SPEJ Apr. 84, 141-152
- Naturally fractured: influence of block size on transition curve for drawdown test, (Tech. Paper SPE 10543) SPEJ Oct. 84, 498-504
- Two-phase properties: in history matching; identifiability of estimates, (Tech. Paper SPE 12579) SPEJ Dec. 84, 697-706
- With heterogeneous properties: effect of flow time duration on buildup pattern, (Tech. Paper SPE 11140) SPEJ Jun. 84, 294-306

Residual Oil-Stratification

Residual Oil

Parameter: estimating three-phase relative permeability; evaluation of normalized Stone's methods, (Tech. Paper SPE 11277) SPEJ Apr. 84, 224-239

Retorting

Oil shale: modified in-situ; results of mathematical modeling, (Tech. Paper SPE 11000) SPEJ Feb. 84, 75-86

Retrograde Condesation

Recovery from naturally fractured condensate-gas reservoirs, (Tech. Paper SPE 11199) SPEJ Dec. 84, 707-718

Rheology

Enhancement: by molecular association complexes, (Tech. Paper SPE 10675) SPEJ Aug. 84, 431-434

Fracturing fluid: pipe viscometer study, (Tech. Paper SPE 10258) SPEJ Oct. 84, 575-581

S

Salinity

Dependence: interfacial light scattering study in microemulsions, (Tech. Paper SPE 10788) SPEJ Apr. 84, 203-208

Optimal: contact angles for equilibrated microemulsion systems, (Tech. Paper SPE 8262) SPEJ Jun. 84, 342-350

Sand

Deformation concept: application to the numerical simulator; introduction of microchanneling phenomenon to cyclic steam stimulation, (Tech. Paper SPE 11193) SPEJ Aug. 84, 417-430

Shaly: dual-water model for interpretation; theoretical and experimental bases, (Tech. Paper SPE 6859) SPEJ Apr. 84, 153-168

Sandston

Correlation of capillary number relationships for, (Tech. Paper SPE 10114) SPEJ Oct. 84, 555-562

Saturation

Distribution of fluid phases within the steam zone: steaminjection processes, (Tech. Paper SPE 11273) SPEJ Aug. 84, 458-466

Equation: simulation of two-dimensional simulation using mixed finite elements, (Tech. Paper SPE 10502) SPEJ Aug. 84, 382-390

Scaling

Critical behavior: microemulsion systems, (Tech. Paper SPE 10787) SPEJ Apr. 84, 197-202

Field models: new approach to shale management, (Tech. Paper SPE 10976) SPEJ Aug. 84, 447-457

Semiconductors

In fracture propagation: laboratory experiments, (Tech. Paper SPE 10377) SPEJ Jun. 84, 256-268

Sensitivity Analysis

Of steamflood model results to grid and timestep sizes, (Tech. Paper SPE 11080) SPEJ Feb. 84, 65-74

Shales

Management: field-scale models; new approach, (Tech. Paper SPE 10976) SPEJ Aug. 84, 447-457

Shape Factors

For eccentric circular systems: pressure distribution in, (Tech. Paper SPE 11223) SPEJ Dec. 84, 677-684

Silicon Tetraflouride

Of effects of viscous fingering: miscible displacement processes in porous media, (Tech. Paper SPE 10970) SPEJ Feb. 84, 56-64

Simulation

Black oil: fully implicit; gas phase appearance and disappearance, (Tech. Paper SPE 11757) SPEJ Oct. 84, 505-507 Cyclic steam stimulation: sand deformation concept; introduction of microchanneling phenomenon, (Tech. Paper SPE 11193) SPEJ Aug. 84, 417-430

Experimental: CO2 injection; analysis of effect on recovery of in-situ methane from bituminous coal, (Tech. Paper SPE 10822) SPEJ Oct. 84, 521-528

Field-scale models: new approach to shale management, (Tech. Paper SPE 10976) SPEJ Aug. 84, 447-457

Miscible displacement problems in porous media; mixed finite element method usage, (Tech. Paper SPE 10501) SPEJ Aug. 84, 391-398

Numerical: CO2 flood performance, (Tech. Paper SPE 10514) SPEJ Dec. 84, 597-605

Of modified in-situ oil shale retorting: results of mathematical modeling, (Tech. Paper SPE 11000) SPEJ Feb. 84, 75.86

Of two-dimensional waterflooding: using mixed finite elements, (Tech. Paper SPE 10502) SPEJ Aug. 84, 382-

Study: phase-behavior/macroscopic-bypassing interaction: CO2 flooding, (Tech. Paper SPE 10686) SPEJ Oct. 84, 508-520

Single-Point Entry

Numerical: combustion tube experiments and associated kinetics; in-situ combustion processes, (Tech. Paper SPE 11074) SPEJ Dec. 84, 657-666

Sloss Field

See Nebraska, (Tech. Paper SPE 8827) SPEJ Feb. 84, 38-48

Sodium Chloride

Solutions: thermodynamic model of redissolution of calcium sulfonate precipitates in, (Tech. Paper SPE 10598) SPEJ Dec. 84, 667-676

Stabilit

Of fracturing fluid: evaluation by using a heated, pressurized flow loop, (Tech. Paper SPE 10962) SPEJ Jun. 84, 249-255

Steam Injection

Cyclic: introduction of microchanneling phenomenon to stimulation; application to the numerical simulator, sand deformation concept, (Tech. Paper SPE 11193) SPEJ Aug. 84, 417-430

Processes: distribution of fluid phases within the steam zone, (Tech. Paper SPE 11273) SPEJ Aug. 84, 458-466

Steam zone growth in cylindrical channels, (Tech. Paper SPE 11873) SPEJ Oct. 84, 481-483

Steam zone growth in cylindrical channels: discussion of, (Discussion SPE 12954) SPEJ Oct. 84, 484

Steamflood model: sensitivity of results to grid and timestep sizes, (Tech. Paper SPE 11080) SPEJ Feb. 84, 65-74

Stimulation

Cyclic steam: introduction of microchanneling phenomenon; application to the numerical simulator (Sand deformation concept), (Tech. Paper SPE 11193) SPEJ Aug. 84, 417-430

Stratification

In porous medium with crossflow: single-phase fluid flow in, (Tech. Paper SPE 11439) SPEJ Feb. 84, 97-106

In porous medium with crossflow: single-phase fluid flow in; discussion of, (Discussion SPE 12946) SPEJ Jun. 84, 307

Vertical, Dykstra-Parsons: analytical extension of discrete solution to a continuous real time basis, (Tech. Paper SPE 12065) SPEJ Dec. 84, 643-655

Vertical, Dykstra-Parsons: analytical extension of discrete solution to a continuous real time basis; authors' reply to discussion of, (Rebuttal SPE 13830) SPEJ Dec. 84, 656 Vertical, Dykstra-Parsons: analytical extension of discrete solution to a continuous real time basis; discussion of, (Discussion SPE 13753) SPEJ Dec. 84, 656

Stresses

Earth: changes around a wellbore caused by radially symmetrical pressure and temperature gradients, (Tech. Paper SPE 10080) SPEJ Apr. 84, 129-140

In-situ: in hydraulic fracture propagation in layered rock; experimental studies of fracture containment, (Tech. Paper SPE 9878) SPEJ Feb. 84, 19-32

Substrates

High- and low-energy: contact angles for microemulsion systems, (Tech. Paper SPE 8262) SPEJ Jun. 84, 342-350

Sulfonates

Adsorption on minerals: role of surfactant precipitation and redissolution, (Tech. Paper SPE 8263) SPEJ Apr. 84, 233-239

Broad equivalent-weight systems: micellar floods; propagation of oil-moving and solubilizing components, (Tech. Paper SPE 10200) SPEJ Aug. 84, 435-446

Calcium: precipates in NaCl solutions: thermodynamic model of redissolution, (Tech. Paper SPE 10598) SPEJ Dec. 84, 667-676

Surfactants

CO2: mobility control, (Tech. Paper SPE 9808) SPEJ Apr. 84, 191-196

Calcium sulfonate precipitates in NaCl solutions: thermodynamic model of redissolution, (Tech. Paper SPE 10598) SPEJ Dec. 84, 667-676

Flood: of oil-saturated porous medium; visualization of, (Tech. Paper SPE 11598) SPEJ Jun. 84, 325-327

Flooding: optimal injection policies for enhanced oil recovery, (Tech. Paper SPE 12814) SPEJ Jun. 84, 333-341

Mixtures: optimal injection strategies for propagation through porous media, (Tech. Paper SPE 10291) SPEJ Oct. 84, 545-554

Precipitation: role with redissolution in adsorption of sulfonate on minerals, (Tech. Paper SPE 8263) SPEJ Apr. 84, 233-239

Systems: oil recovery with; ternary, two-phase, mathematical model, (Tech. Paper SPE 12934) SPEJ Dec. 84, 606-616

Surveys

Electromagnetic: for directionally drilling a relief well into a blown out oil or gas well, (Tech. Paper SPE 10946) SPEJ Jun. 84, 269-274

T

Temperature

And pressure: influence on asphaltene flocculation, (Tech. Paper SPE 11202) SPEJ Jun. 84, 283-293

Dependence: interfacial light scattering study in microemulsions, (Tech. Paper SPE 10788) SPEJ Apr. 84, 203-208

Dependence: of microemulsion systems; critical scaling behavior of, (Tech. Paper SPE 10787) SPEJ Apr. 84, 197-202

Distribution: in porous media; application of time-dependent overall heat-transfer coefficient concept to heat-transfer problems, (Tech. Paper SPE 8909) SPEJ Feb. 84, 107-112

Gradients: radially symmetrical: cause of changes in earth stresses around a wellbore, (Tech. Paper SPE 10080) SPEJ Apr. 84, 129-140

Tertiary Recovery

CO2 processes: mobility control, (Tech. Paper SPE 9808) SPEJ Apr. 84, 191-196 Chemical flood: porous media; optimal injection strategies for propagation of surfactant mixtures, (Tech. Paper SPE 10291) SPEJ Oct. 84, 545-554

Testing

Adsorption of sulfonate on minerals: role of surfactant precipitation and redissolution, (Tech. Paper SPE 8263) SPEJ Apr. 84, 233-239

CO2 mobility control, (Tech. Paper SPE 9808) SPEJ Apr. 84, 191-196

Effect of nozzle diameter on jet impact: tricone bit, (Tech. Paper SPE 11059) SPEJ Feb. 84, 9-18

Gas phase appearance and disappearance: fully implicit black oil simulation, (Tech. Paper SPE 11757) SPEJ Oct. 84, 505-507

Texas

San Andres reservoir: CO2 flood performance; numerical simulation, (Tech. Paper SPE 10514) SPEJ Dec. 84, 597-605

Thermal Recovery of Oil

Heat transfer problems: porous media; application of timedependent overall heat-transfer coefficient concept, (Tech. Paper SPE 8909) SPEJ Feb. 84, 107-112

In-situ combustion: numerical simulation of combustion tube experiments and associated kinetics, (Tech. Paper SPE 11074) SPEJ Dec. 84, 657-666

In-situ combustion: reaction kinetics; part 1 - observations, (Tech. Paper SPE 8907) SPEJ Aug. 84, 399-408

In-situ combustion: reaction kinetics; part 2 - modeling, (Tech. Paper SPE 9454) SPEJ Aug. 84, 408-416

Steam injection: steam zone growth in cylindrical channels, (Tech. Paper SPE 11873) SPEJ Oct. 84, 481-483

Steam injection: steam zone growth in cylindrical channels; discussion of, (Discussion SPE 12954) SPEJ Oct. 84, 484

Steam-injection processes: distribution of fluid phases within steam zone, (Tech. Paper SPE 11273) SPEJ Aug. 84, 458-466

Steamflood model: sensitivity of results to grid and timestep sizes, (Tech. Paper SPE 11080) SPEJ Feb. 84, 65-74

Tomograph

Computer-assisted: for observation of oil displacement in porous media, (Tech. Paper SPE 11758) SPEJ Feb. 84, 53-55

Transition Zone

Miscible-immiscible: CO2 flood performance; numerical simulation, (Tech. Paper SPE 10514) SPEJ Dec. 84, 597-605

Transportation

Viscosity reduction: correlation for mixtures of heavy oil, bitumen, and petroleum fractions, (Tech. Paper SPE 11280) SPEJ Jun. 84, 277-282

Tubular Goods

Helical postbuckling configuration of a weightless column under the action of an axial load, (Tech. Paper SPE 10854) SPEJ Aug. 84, 467-472

U

Llinta

CO2 reservoirs: real gas pseudopressures for, (Tech. Paper SPE 10128) SPEJ Apr. 84, 180-190

Uraniun

Ore: mineralogical characterization to evaluate in-situ leaching prospects, (Tech. Paper SPE 11045) SPEJ Oct. 84, 563-574

V

Vaporizing-Gas Drive

And condensing, one-dimensional, three-component: analytical model for, (Tech. Paper SPE 10069) SPEJ Apr. 84, 169-179

Viscometer

Pipe: study of fracturing fluid rheology, (Tech. Paper SPE 10258) SPEJ Oct. 84, 575-581

Viscosity

Correlation: for mixtures of heavy oil, bitumen, and petroleum fractions, (Tech. Paper SPE 11280) SPEJ Jun. 84, 277-282

Increase: polymer solutions; rheology enhancement by molecular association complexes, (Tech. Paper SPE 10675) SPEJ Aug. 84, 431-434

Of aqueous phase: oil recovery with surfactant system; ternary, two-phase, mathematical model, (Tech. Paper SPE 12934) SPEJ Dec. 84, 606-616

W

Water

Displacing oil: oil-saturated porous medium; visualization of a surfactant flood, (Tech. Paper SPE 11598) SPEJ Jun. 84, 325-327

Three-phase relative permeability: evaluation of normalized Stone's methods for estimating, (Tech. Paper SPE 11277) SPEJ Apr. 84, 224-239

Waterflooding

Oil recovery in fractured reservoirs: directionally drilled wells, (Tech. Paper SPE 11024) SPEJ Aug. 84, 375-381

Radially symmetrical pressure and temperature gradients created around wellbore: changes in earth stresses, (Tech. Paper SPE 10080) SPEJ Apr. 84, 129-140

Two-dimensional waterflooding: simulation using mixed finite elements, (Tech. Paper SPE 10502) SPEJ Aug. 84, 382-390

Two-phase reservoir properties: identifiability of estimates in history matching, (Tech. Paper SPE 12579) SPEJ Dec. 84, 697-706

Wellbore Mechanics

Earth stresses around: changes caused by radially symmetrical pressure and temperature gradients, (Tech. Paper SPE 10080) SPEJ Apr. 84, 129-140

X

Xanthan Gum

Microgels existing in solutions of: influence in polysaccharide solutions on their flow behavior through porous media, (Tech. Paper SPE 9295) SPEJ Jun. 84, 361-368

